

04-ALA-580 KP 67.1/67.9 (PM 41.7/42.2) 04-250-284200 2002 STIP \$537,000

# SUPPLEMENTAL NOISE BARRIER SCOPE STUDY REPORT (NBSSR)

On Route:

Eastbound I-580 in City of Oakland, Alameda County

From: To:

KP 67.1 (PM 41.7) West of 14th Avenue

KP 67.9 (PM 42.2) at Ardley Avenue

I have reviewed the right of way information contained in this Noise Barrier Scope Summary Report and the R/W Data Sheet attached hereto, and find the data to be complete, current, and accurate:

R.A. MACPHERSON, DEPUTY DISTRICT DIRECTOR - RIGHT OF WAY

APPROVAL RECOMMENDED:

JERRY P. MA, PROJECT MANAGER

APPROVED:

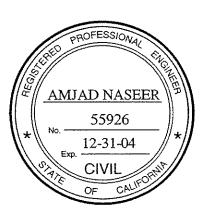
HIDY CHEN DISTRICT DIVISION CHIEF - DESIGN EAST

a/28/03

DATE

This Supplemental Noise Barrier Scope Summary Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Amind Novem 02
REGISTERED CIVIL ENGINEER



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# SUPLEMENTAL NOISE BARRIER SCOPE STUDY REPORT (NBSSR)

#### 1. Introduction

The NBSSR for this project was approved June 26, 2001 (see Attachment G). The Traffic Noise Impact Report for this project, completed February 10, 2003 (see Attachment B), maintains the location and the layout for the two soundwalls proposed in the approved NBSSR with only minor changes to the beginning & ending stationing of the soundwalls. Therefore, no changes are needed to the soundwalls proposed in the approved NBSSR. A copy of the Proposed Soundwalls Layout Plan is shown in Attachment C.

Since the NBSSR was approved in June 2001, revisions needed to the approved NBSSR are discussed in the sections described below.

#### 2. Programming & Scheduling

#### Programming

This project is currently programmed in the 2002 STIP (see Attachment D) for the fiscal year 2002/03 as follows:

<u>Item</u>	Support Cost
PA&ED	\$39,000
PS&E	\$73,000
R/W Support	\$10,000
Total	\$122,000

Additional funds need to be programmed in the STIP for the fiscal year 2004/05 as follows:

<u>Item</u>	Project Cost	Support Cost
R/W Construction	\$26,000 \$511,000	\$76,000
Total	\$537,000*	\$76,000*

<sup>\*</sup> February 2003 Dollars.

#### • Proposed Project Schedule (see PYPSCAN, Attachment E)

Supplemental NBSSR/PA&ED	February 2003
District PS&E	September 2004
R/W Certification	November 2004
Ready to List	January 2005
Award Contract	July 2005
Complete Construction	July 2006

#### 3. Cost Estimate

The cost estimate in the approved NBSSR of June 26, 2001 needs to be revised to reflect increases due to inflation. Annual escalation rates of 3.4% for construction capital and 2.7% for support costs (see 2002 RTIP, Attachment F) were applied to R/W Capital, Construction Capital, and Construction Support to calculate the current estimate.

#### Estimate:

<u>Item</u>	Project Cost	Support Cost
PA&ED		\$39,000
PS&E		\$73,000
R/W	\$26,000	\$10,000
Construction	\$511,000	\$76,000
Total	\$537,000*	\$198,000*

<sup>\*</sup> February 2003 Dollars.

#### 4. Cost Effectiveness

With an estimated project capital cost of \$537,000 and 16 residential units to be protected, the cost per unit is \$33,563, which is less than the maximum amount of \$45,000 in ACCMA's policies. So the proposed soundwall construction remains cost effective.

#### 5. Environmental Clearance

This project satisfies the requirements for Categorical Exemption (CE) under CEQA and Categorical Exclusion (CE) under NEPA. FHWA Determination was obtained on February 27, 2003 (see Environmental Clearance, Attachment A).

#### 6. Project Personnel

The following Design, Alameda-I staff should be contacted if there are any questions regarding this Supplemental NBSSR:

Name	<u>Phone</u>
Jerry Ma, Project Manager District Office Chief	(510) 286-5157
Albert Zepeda Senior Transportation Engineer	(510) 286-5160
Amjad Naseer Project Engineer	(510) 286-5703

## 7. Attachments

- A. Environmental Clearance dated February 27, 2003
- B. Traffic Noise Impact Report dated February 10, 2003
- C. Proposed Soundwalls Layout Plan
- D. 2002 STIP Programming Document
- E. PYPSCAN
- F. 2002 RTIP Cost Escalation Rates
- G. Noise Barrier Scope Summary Report (NBSSR) dated June 26, 2001

Attachments A

**Environmental Clearance** 

# CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION/ PROGRAMMATIC CATEGORICAL EXCLUSION DETERMINATION FORM

PROJECT DESCRIPTION: (Briefly describe project, purpose, location, limits, right-of-way requirements, and activities involved. This project proposes to build two soundwalls on I-830 eastbound near 14th Avenue to Ardley Avenue in the City of Oakland, Alamed County. A noise study indicated that current noise levels caused by freeway traffic exceed 67 dBA. The proposed soundwalls, 4.27 by 330 ml long (14* x 1080*) combined will reduce noise levels by 5 dBA for 15 residential units. The proposed noise barrier material proposed to be masonry blocks (or concrete panels as an atternative). The project will be constructed within the existing State right-and a temporary easement will be required during construction.  CEOA COMPLIANCE LOCAL ASSISTANCE PROJECTS: Record of CEOA compliance is attached.   STATE PROJECTS: Categorical Exemption (See 14 CCR 15300 et seq.)  If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.  There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, time.  There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.  This project does not damage a scenic resource within an officially designated state scenic highway.  This project does not cause a substantial adverse change in the significant effect on the environment due to unusual circumstances.  This project does not cause a substantial adverse change in the significant effect on the environment (CCR 15061(b)(3)).  CALTRANS CEOA DETERMINATION (for State Projects only)  Exempt by Statute (PPC 21080)  Based on an examination of this proposal, supporting information, and the above statements, the project is:  This project does not involve significant impact on the environmental oprunds.  This project does not involve significant impact on properties	04-ALA-580	67.1/67.9	284200	)
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Based on the evaluation of this project and the statements above, it is determined that the project meets the criteria of and is properly classified as a Categorical Exclusion.  27FEB 20  Signature: FHWA Transportation Engineer  Date	Based on the evaluation of this pro-	roject and the statements above, it	Melbrid A Lila	27 FEB 2003

Additional information attached or referenced, as appropriate (e.g. Mitigation commitments for NEPA only; Air Quality studies and documentation of exemption from regional conformity or use of CO Protocol; § 106 commitments; §4(f) or Programmatic §4(f); date of COE nationwide permit; § 7 species survey results; Wetlands Finding; Floodplain Finding; additional studies; design conditions; Local Agency NOE.)

Attachments B

Traffic Noise Impact Report

State of California
Department of Transportation
District 4 – Oakland

4-Ala-580-KP67.1/67.9 (PM 41.7/42.2) 4-334-284200



# Traffic Noise Impact Report

Route I-580

In

City of Oakland, Alameda County

from

14th Avenue to Ardley Avenue

Recommended For Approval

2/10/03

Glenn Kinoshita

District Branch Chief

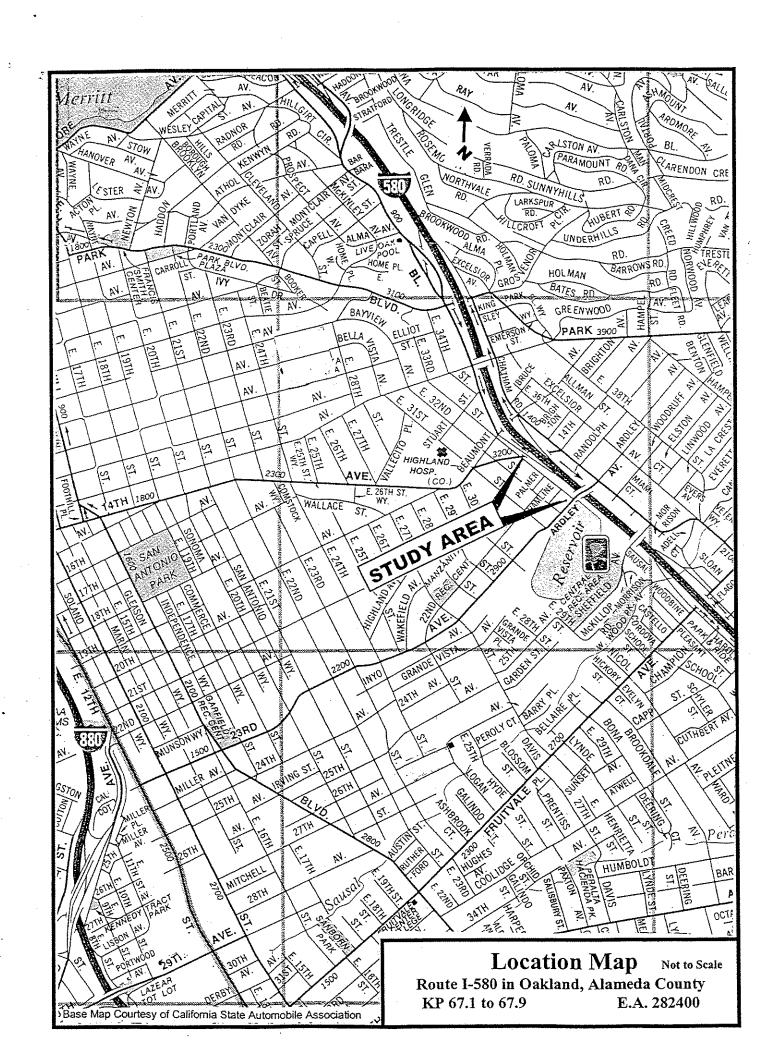
Office of Environmental Engineering

Approved By

Ronald M. Moriguchi

District Office Chief

Office of Environmental Engineering



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#### I. Summary

Residential units adjacent to the eastbound Route I-580 between 14<sup>TH</sup> and Ardley Avenues in the City of Oakland, Alameda County, are currently exposed to freeway traffic noise. Without abatement, the noise levels calculated for the receptors in the area ranged from 67 to 74 dBA at the noisiest hour, exceeding the noise abatement criteria established under both Federal Highway Administration and Alameda County Congestion Management Agency (ACCMA) Freeway Soundwall Policy.

The proposed noise abatement measure consists of two sections of soundwalls inside the State right-of-way, which combined would achieve at least 5 dBA reduction in traffic noise for all 16 receptors in the first row.

**Soundwall A** - 138 m long and varying from 3.0 to 4.3 m in height, along the shoulder of the eastbound Beaumont Avenue on-ramp.

**Soundwall B** - 177 m long and varying from 3.0m to 4.3 m in height, on State right-of-way line along East  $33^{RD}$  Street.

At an estimated total cost of \$507,000, or \$31,688 per benefited residential unit, to construct, this project is considered cost effective under the ACCMA's soundwall policy.

This soundwall proposal meets all criteria specified in the ACCMA's soundwall policy. The soundwalls proposed in this report are subject to design considerations such as stopping sight distance, structure integrity and other engineering and environmental issues. The exact location and dimension of the soundwalls will be determined during the project's design phase. The opinions of those affected residents should be sought in reaching the final design of the soundwalls.

# II. Noise Impact Technical Report

#### 1 Introduction

Section 215.5 of the California Streets and Highways Code required the development of a system of priorities for ranking the need for installation of noise attenuation barriers along freeways in California, with the highest consideration being given to residential areas which were developed prior to the opening of the freeway. Caltrans previously had a Community Noise Abatement Program (HB311) to prioritize and construct soundwalls along existing freeways and expressways. However, with the passage of Senate Bill 45 (SB45 Koop) in 1997, the responsibility for the delivery of soundwall projects was transferred from Caltrans to various county transportation planning agencies. As the transportation planning agency for Alameda County, Alameda County Congestion

Management Agency (ACCMA) has adopted a county-wide soundwall policy for the planning, design and construction of soundwall projects along freeways.

Residential units adjacent to the eastbound Route I-580 between 14<sup>TH</sup> and Ardley Avenues in the City of Oakland are currently exposed to freeway traffic noise and is one of the areas listed on the ACCMA soundwall project priority list.

#### 2 Project Description

The area of study is on the west side of Route I-580 between the 14<sup>TH</sup> and the Ardley Avenues in the City of Oakland, from KP 67.1 to 67.9 (PM 41.7 to 42.2). The area is entirely residential. There are 16 single-family homes in the first row immediately adjacent to the eastbound I-580, including 13 homes on East 33<sup>RD</sup> Street, 2 on Randolph Avenue and one on Ardley Avenue. They were built between years 1905 and 1927, prior to the opening of Route I-580 in 1963. There is also a three-story apartment building at the corner of 14<sup>TH</sup> Avenue and East 33<sup>RD</sup> Street. Route I-580 through this area is an eightlane freeway, four in each direction. Large trucks over 4 ½ tons are prohibited on this stretch of Route I-580 since its opening day. The Location Map shows the vicinity of the study area.

#### 3 Noise Abatement Criteria

The noise abatement criteria (NAC) were established by the Federal Highway Administration (FHWA) regulations in Title 23, Code of Federal Regulations, Part 772 (23 CFR 772) covering Type II projects, a project type classified by FHWA on existing freeways with development predating the freeway. According to the soundwall policy adopted by ACCMA, which this noise study follows, the County's soundwall program applies to:

- Residences developed prior to opening of the freeway.
- Residences affected by an existing or predicted future exterior traffic noise at or exceed 65 dBA, Leq(h). FHWA established the noise abatement criterion for the exterior of residences at noise level approaching 67 dBA. The term "approaching" is defined by ACCMA as within 2 dBA.
- Where noise can be mitigated by at least 5 dBA with a soundwall.
- Where the cost per dwelling units does not exceed \$45,000. The not-to-exceed amount may be adjusted periodically to reflect current construction costs.

# 4 Methodology

Noise measurements were taken in April 2000 to determine the existing noise levels at selected locations. Two Metrosonics, Inc. sound level meters Model db-3100 Metrologgers were used to measure sound levels at four locations along 33<sup>RD</sup> Street, each 15-minute in duration. Traffic volumes were counted manually in concurrence with the measurements.

The results were used to compute the highest hourly traffic noise levels, which usually occurs when the freeway traffic condition is at Level of Service D (LOS "D"). Presently, traffic on Route I-580 operates at LOS "D" during congested hours of the day. The calculated levels, therefore, represent the highest noise levels in existence now. No further increase in noise is anticipated in the future, providing the freeway configuration remains unchanged.

Computer modeling were done with the FHWA approved Traffic Noise Model (TNM) Version 1.1, which considered factors such as traffic volumes, vehicle types, speeds, terrain, shielding, roadway configuration and grade for deriving the highest noise levels at the measurement and the receptors locations.

Most homes on East 33<sup>RD</sup> Street have terraced front yards and their primary living areas situated considerably higher than the local street in front. Computation of noise considered the raised level of the porch/living area as the receptor's elevation. The three-story apartment building at the corner of 14<sup>TH</sup> Avenue and East 33<sup>RD</sup> Street was not considered a noise sensitive receptor for this study, since it has no outdoor activity areas with frequent human use.

TNM was also used in evaluating the effectiveness of soundwall proposals. Soundwalls were designed to reduce the noise levels by a minimum of 5 dBA for the intended receptors.

Table 1 shows the highest noise levels calculated by TNM, with and without the soundwalls, for all the receptors in the project area.

TABLE 1 - Noise Levels

	Highest Noise Le	evels (Calculated)		
	No Wall	With Walls	Reduction	
Receptor No.	dBA, Leq(h)	dBA, Leq(h)	dBA	Location
R1	67	62	5	E. 33rd St.
R2	68	62 ·	6	E. 33rd St.
R3	69	62	7	E. 33rd St.
R4	69	62	7	E. 33rd St.
R5	70	64	6	E. 33rd St.
R6	. 71	65	6	E. 33rd St.
R7	71	66	5	E. 33rd St.
R8	72	67	5	E. 33rd St.
R9	73	68	5	E. 33rd St.
R10	73	67	6	E. 33rd St.
R11	73	66	7	E. 33rd St.
R12	73	66	7	E. 33rd St.
R13	73	66	7	E. 33rd St.
R14	70	62	8	Randolph Ave.
R15	74	60	14	Randolph Ave.
R16	74	61	13	Ardley Ave.

#### 5 Recommendations

The noise levels for the area's receptors ranged from 67 to 74 dBA without soundwalls at the noisiest hour, which are above the noise abatement criteria of both FHWA and ACCMA's soundwall policy. The proposed noise abatement measure consists of two sections of soundwalls inside the State right-of-way, which combined would achieve at least 5 dBA reduction in traffic noise for all receptors. EXHIBIT 1 shows the location of the proposed soundwalls in relation to the freeway and the receptors.

**Soundwall** A (from "F" Line Stations 218+40 to 222+90) – 138 m in length and varying from 3.0 m to 4.3 m in height, along the shoulder of the eastbound Beaumont Avenue on-ramp. It includes of a 35 m and 3.0 m high segment on top of the existing eastbound on-ramp undercrossing structure at 14<sup>TH</sup> Avenue and a continuous segment, 103 m long and 4.3 m high, on the edge of shoulder of the on-ramp. Heights are measured from the grade of existing surface.

Soundwall B (from "F" Line Stations 221+40 to 227+20) – 177 m in length and varying from 3.0 m to 4.3 m in height, on State right-of-way line along E. 33<sup>RD</sup> Street. It consists of an 83 m long and 4.3 m high segment at the north end and a 94 m long and 3.0 m high segment continues to the south. Heights are measured from the grade of existing surface.

According to Caltrans Highway Design Manual, 4.3 m is considered the maximum height of soundwall when situated within 4.5 m from the edge of the traveled way. Caltrans usually requires a soundwall be designed to block the line of sight from the receptor to the exhaust stack of a truck, which these proposed soundwalls would not be able to achieve due to drastic terrain condition. However, noise emitted from truck stacks would not present as much of a nuisance in this area, since heavy trucks are prohibited on Route I-580 except in emergency situations.

Based on the cost estimated in the Noise Barrier Scope Summary Report prepared in June 2001 at an earlier stage of this project, these two soundwalls would cost \$507,000 to construct. With a total of 16 benefited residential units, the cost per unit would be \$31,688, which is below the maximum amount of \$45,000 per unit established in the ACCMA's freeway soundwall policy. This project is, therefore, considered cost effective under the policy.

It is determined this soundwall proposal meets all criteria specified in the ACCMA's freeway soundwall policy. Soundwalls proposed in this report are subject to design considerations such as stopping sight distance, structure integrity and other engineering and environmental issues. The exact location and dimension of the soundwalls will be determined during the project's design phase. Transition of wall height from 3.0m to 4.3m should be made less abrupt with incremental steps. The opinions of those affected residents should be sought in reaching the final design of the soundwalls.

#### 6 Construction Noise

Noise generated while constructing the soundwalls could at times reach levels higher then the existing traffic noise. The impact from construction activities would be temporary and can be minimized by the following measures:

- Avoid construction activities during nighttime and weekends, when possible.
- Keep the community informed of any upcoming especially noisy construction activities.
- Implement Section 7-1.01I, "Sound Control Requirements" of the Caltrans Standard Specifications.

## 7 Glossary

dBA – The sound pressure level in decibels measured with a sound level meter having a frequency-weighted network corresponding to the A-Scale used as a standard by the American National Standards Institute (ANSI). The A-weighted scale of measurement, which correlates with human hearing response, tends to suppress lower frequency sounds below 1000 Hertz (Hz) and higher frequency above 4000 Hz.

Leq(h) – Hourly Equivalent Sound Level. Leq, a descriptor of sound, is the equivalent steady state sound level which in a stated period of time contains the same acoustic energy as the real fluctuating sound levels during the same period. The period is usually one hour and the equivalent sound level is expressed as Leq(h).

Line of Sight - A straight line between the observe location and a specific noise source.

Noise - Sound that is loud, unpleasant, unexpected, or otherwise undesirable.

Receptor – A location for noise measurement or where noise sensitive receiver likely to present.

Sound Level Meter – An instrument used for measuring sound levels in a specified manner. It comprises a microphone, an amplifier, an output display, and frequency weighting networks.

#### 8 Reference

Procedures for Abatement of Highway Traffic Noise and Construction Noise, Tile 23, Code of Federal Regulations, Part 772, 1982

Alameda County Congestion Management Agency Freeway Soundwall Policy (Proposed), 2002

**Traffic Noise Analysis Protocol**, Caltrans, Environmental Program, Environmental Engineering October 1998

**Technical Noise Supplement**, Caltrans, Environmental Program, Environmental Engineering, October 1998

FHWA Traffic Noise Model, TNM Version 1.1, September 2000

Highway Design Manual, Chapter 1100, Highway Traffic Noise Abatement, Caltrans, November 2001

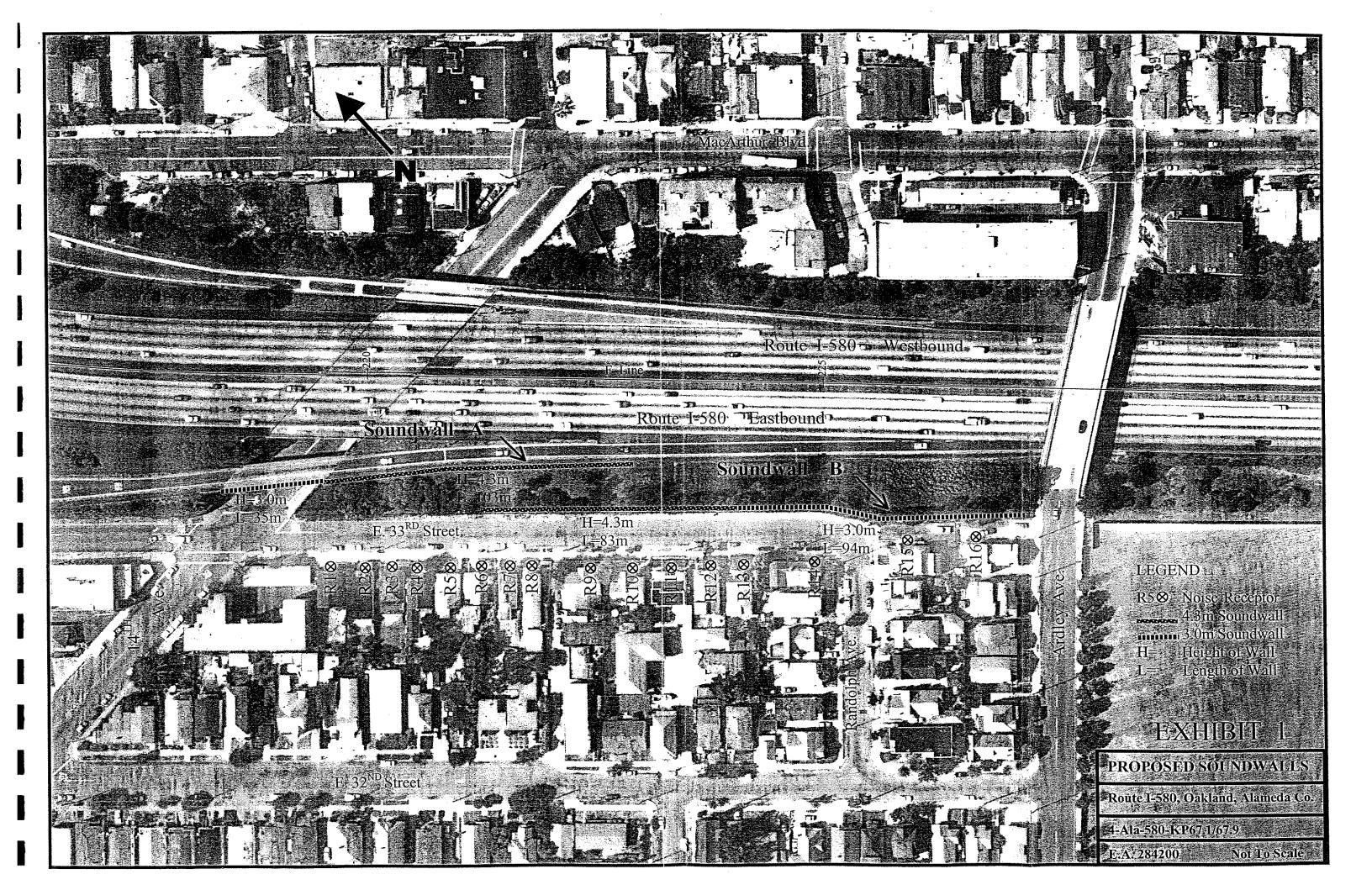
2000 Annual Average Daily Truck Traffic on the California State Highway System, Division of Traffic Operations, Caltrans, 2002

# 9 Exhibits

Exhibit 1 – Proposed Soundwalls

Exhibit 2 – Common Indoor and Outdoor Noise Levels

Exhibit 3 – Noise Abatement Criteria



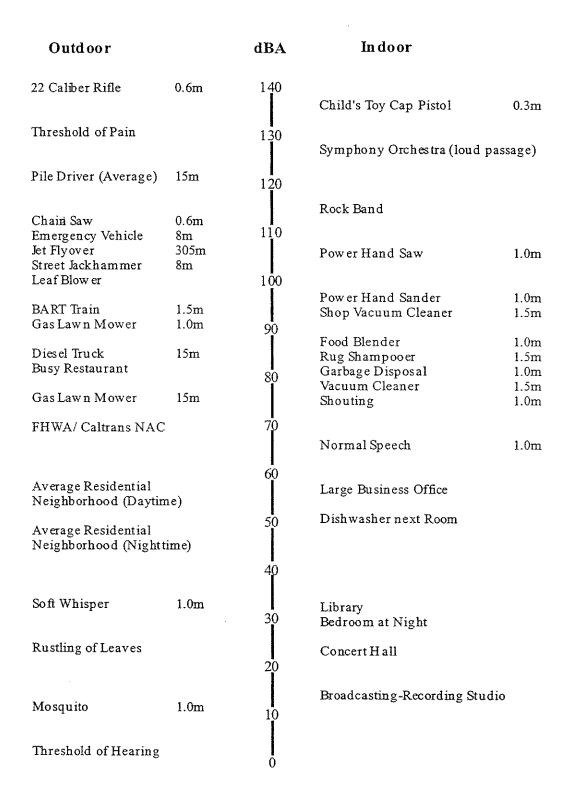


Exhibit 2 - Common Indoor and Outdoor Noise Levels

Activity Category	Hourly A-Weighted Sound Level dBA, Leq(h)	Description of Activity Categories
A	57 Exterior	Lands of which serenity and quiet are of extraordinary significance and serve an important public need, and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
В	67 Exterior	Picnic areas, recreation areas, playgrounds, active sports areas, parks, residences, motels, hotels, schools, churches, libraries, and hospitals.
С	72 Exterior	Developed lands, properties, or activities not included in Categories A or B above.
D		Undeveloped lands.
E	52 Interior	Residences, motels, hotels, public meeting, rooms, schools, churches, libraries, hospitals, and auditoriums.

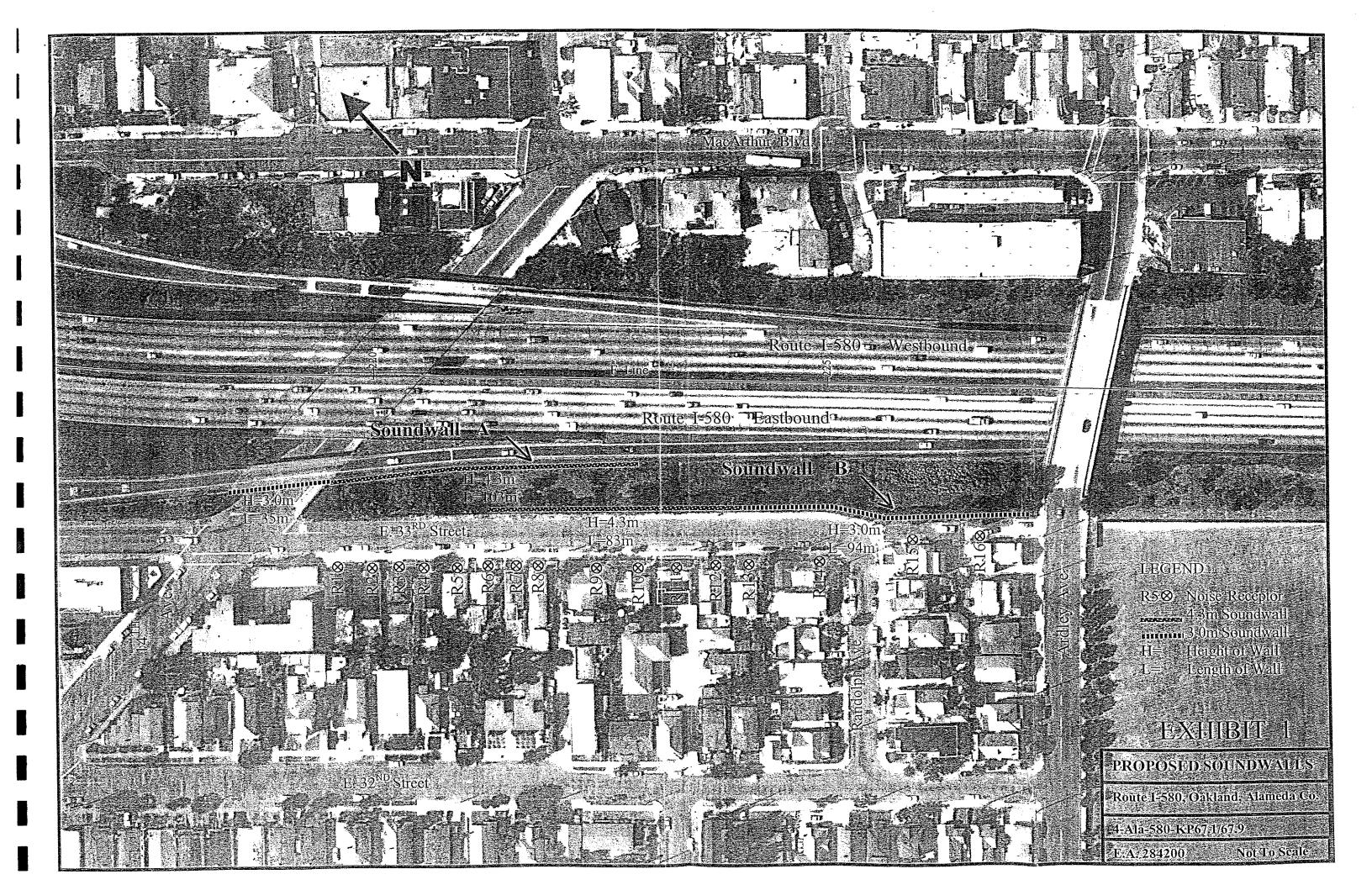
Chapter 30, Section 2 - New Highway Construction or Reconstruction 7th Edition, Project Development Procedures Manual January 1, 1997

Exhibit 3 - Noise Abatement Criteria (NAC)

Attachments C

Proposed Soundwalls Layout Plan

Attachment G. Right of Way Data Sheet



Attachments D

2002 STIP Programming Document

## State Transportation Improvement Program

#### **Alameda County**

Document Year 2002, PPNO 0148A, Version Number 2

(Dollars in Thousands)

DIST: 04 COUNTY: Alameda County	TITLE (DESCRIPTION):					LEAD AGENCY: Caltrans					
580 PM: 42.2 / 41.7	I-580 Eastbound Oaklar	I-580 Eastbound Oakland 14th/Ardley Nois (Oakland; Along Eastbound I-580 from west of 14th Avenue to Ardley Avenue; Construct noise barrier)				) MPO: Metropolitan Transportation Commission					
0148A KP: 67.9 / 67.1	from west of 14th Avenu	ie to Ardiey Ave	enue; Construc	t noise barner	'	CORRIDOR:					LAW: 02
EA: 284201 MPO ID: 6					}	PRJ MGR:					
CTIPS ID: 206-0000-2171					ļ	PHONE:					
ELEMENTS: Capital Outlay						CALNET:					
ASSEMBLY: 16											
SENATE: 9											
CONGRESS: 9	2.5.25					- Drn	arommed De	llars in Thous	ande Tota	I Ear Design	<del> </del>
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Fund Source 1 of 2 Future (Unfunded	Need)		PRIOR	02/03	03/04	04/05	05/06	06/07	<u>07/08</u>	FUTURE	TOTAL
Fund Type:	TE DATE AMOUNT	PA&ED									
Future Funds		PS&E									
Program Code:		R/W SUP CON SUP				73					73
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Unfunded Need to Complete		CON				483					483
Funding Agency:		Total:		······································		589					580
Alameda County Congestion Management Agency		i viai.									
Fund Source 2 of 2 STIP - RIP			PRIOR	02/03	03/04	04/05	05/06	<u>06/07</u>	07/08	<b>FUTURE</b>	TOTAL
Fund Type:		PA&ED		39							<b>3</b> 9
National Hwy System	TE DATE AMOUNT	PS&E		73							73
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HQ Comments:

Version 2 - 06/12/2002 \*\*\*\*\*\*\*\*\*

06/12/02 - Added EA, per district's request, do

4/29/02 Updated project element, year added, TRAMS code and RIP fund type. -Igreen

16:14:4

Attachments E

**PYPSCAN** 

PJD 58 .08 .22 .05 RWO .05 .22 .09 .03 STD STC CON 17 .03 1.42 .04 .13 TOTAL . 44 .17 1.45 .04 M I L E S T O N E S (\* COMPUTED BY PYPSCAN) REG RW LEAD 14 WDYS 80 FLAG S X ID NEED APPR PSR BEG ENVR BEG PR CIRC DPR CIRC ED HEARING PAR RPT 06/01/00 06/26/01 \* 06/00 06/01 NA/ NA/ NA/ NA/ NA/ PA&ED CL GEO BASE BR SITE BEG BR RW MAPS REG RW SKEL LAY ENV REVL 02/ /03 06/ /03 08/ /03 \* 02/03 06/03 NA/ NA/ 08/03 08/03 08/03 NA/ DT PS&E RW CERT RDY LIST HQ ADV BR PS&E APR CNTR JOB COMP 09/ /04 11/ /04 01/ /05 04/ /05 07/ /05 07/ /06 09/04 11/04 01/05 04/05 07/05 07/06 \* NA/

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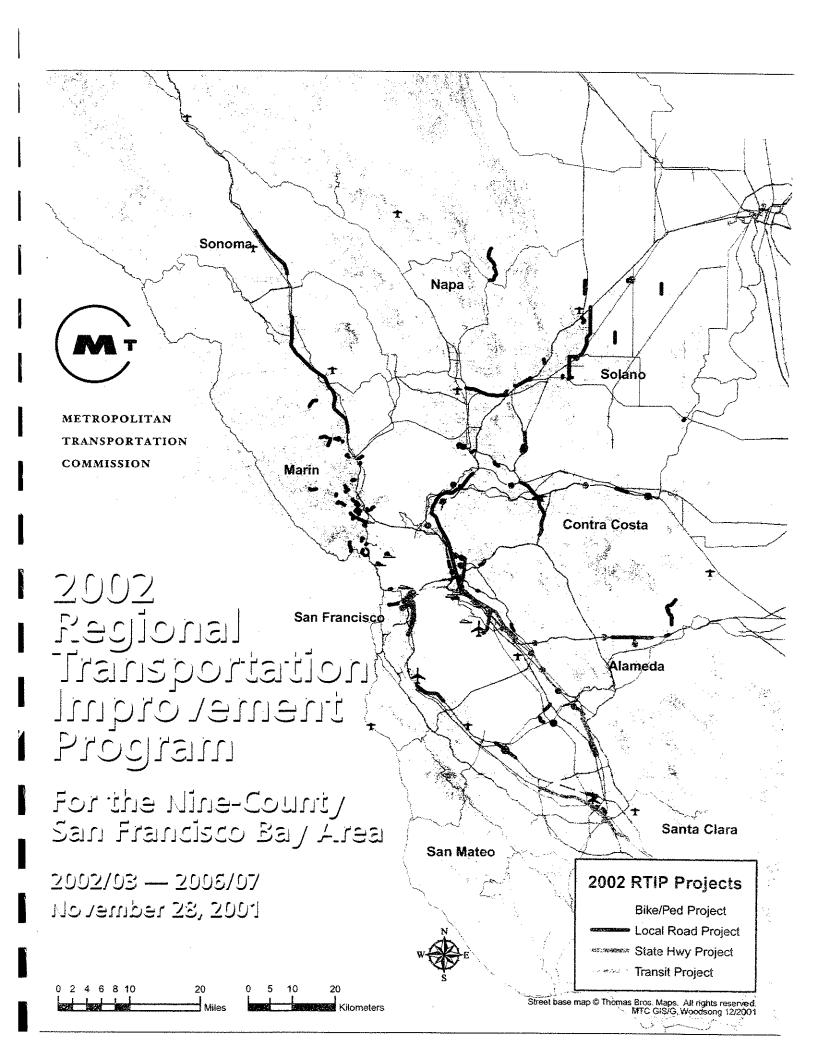
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Attachments F

2002 RTIP – Cost Escalation Rates



# 2002 Regional Transportation Improvement Program Policies and Procedures Attachment D: 2002 RTIP Project Screening Criteria

#### Eligible Projects

A. Eligible Projects. SB 45 (Chapter 622, Statutes 1997) widened the range of projects that are eligible for consideration in the RTIP. Eligible projects include, state highway improvements, local road improvements and rehabilitation, public transit, intercity rail, pedestrian, and bicycle facilities, and grade separation, transportation system management, transportation demand management, soundwall projects, intermodal facilities, and safety.

#### Planning Prerequisites

- **B. RTP Consistency.** Projects included in the RTIP must be consistent with the adopted Regional Transportation Plan (RTP), which state law requires to be consistent with federal planning and programming requirements. Each project to be included in the RTIP must identify its relationship with meeting the goals and objectives of the RTP, and where applicable, the RTP ID number and/or RTP travel corridor and whether the project is to be credited against the county's transit capital shortfall target.
- C. CMP Consistency. Local projects must also be included in a County Congestion Management Plan (CMP), or in an adopted Capital Improvement Program (CIP) for counties that have opted out of the CMP requirement, prior to inclusion in the RTIP.
- D. PSR or PSR Equivalent is Required. Projects in the STIP must have a complete project study report or, for a project that is not on a state highway, a project study report equivalent or major investment study. The intent of this requirement is to ensure that the project scope, cost and schedule have been adequately defined and justified. This requirement is particularly important in light of SB 45 timely use of funds requirements, discussed below.

The required format of a PSR or PSR equivalent varies by project type. Additional guidance on how to prepare these documents is available on the internet at the addresses indicated within Part 3 (Project Study Report (PSR), or equivalent) of Attachment E: 2002 RTIP Project Application, which includes a table categorizing PSR and PSR equivalent requirements by project type.

#### **Project Costs and Phases**

E. Escalated Costs. All projects will count against share balances on the basis of their fully escalated (inflated) costs. All RTIP project costs must be escalated to the year in which project delivery is proposed.

As required by law, inflation estimates for Caltrans operations (support) costs are based on the annual escalation rate established by the Department of Finance. For the 2002 STIP the escalation rate for Caltrans operations is 2.7 percent. The annual inflation factor for Caltrans

capital projects is based on the California Highway Construction Cost Index. For the 2002 STIP period the escalation rate for Caltrans capital construction is 3.4 percent.

Local project sponsors may use the state escalation rates or their own rates in determining the escalated project cost in the year programmed.

- F. Project Phases. Projects should be separated into the following project components:
  - 1. Completion of all permits and environmental studies
  - 2. Preparation of all Plans, Specifications, and Estimates
  - 3. Acquisition of right-of-way
  - 4. Construction and construction management and engineering, including surveys and inspections."

Note: Right-of-way and construction components on Caltrans projects must be further separated into capital costs and Caltrans support costs.

The project sponsor/CMA must display the project in these four components (six for Caltrans projects) in the final submittal. STIP funding amounts programmed for any component shall be rounded to the nearest \$1,000.

G. Fiscal Years of Programming. The 2002 STIP covers the five-year period from FY 2002-03 though 2006-07. Therefore, no new projects will be programmed in FY 2001-02. This includes the programming of any unprogrammed balances from the 2000 STIP. Project sponsors wishing to access funds in FY 2001-02 must program the funds in FY 2002-03, and request an advance of funds into the 2001-02 fiscal year. For delivery purposes, STIP funds will not be amended into the current year of the STIP, unless there is strong justification.

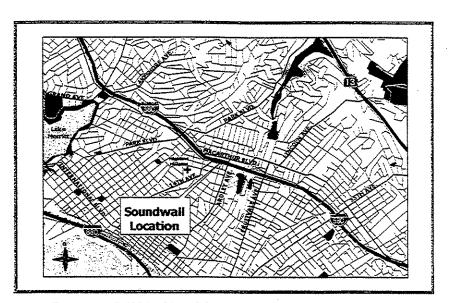
#### Readiness Standards

- H. Project Phases Must Be Ready in the Year Proposed. Funds designated for each project component will only be available for allocation until the end of the fiscal year in which the funds are programmed in the STIP. Once allocated, the sponsor will have two additional years to expend funds. For construction, the sponsor will have one year to award a contract and three years to expend funds. It is therefore very important that projects be ready to proceed in the year programmed.
- I. Completion of Environmental Process. Government Code Section 14529(c) requires that funding for right-of-way acquisition and construction for a project may be included in the STIP only if the CTC makes a finding that the sponsoring agency will complete the environmental process and can proceed with right-of-way acquisition or construction within the five year STIP period. Furthermore, in compliance with Section 21150 of the Public Resources Code, the CTC may not allocate funds to local agencies for design, right-of-way, or construction prior to documentation of environmental clearance under the California Environmental Quality Act (CEQA). Therefore, project sponsors must demonstrate to MTC that these requirements can be reasonably expected to be met prior to programming right-ofway or construction funds in the RTIP.

Attachments G

Noise Barrier Scope Summary Report (NBSSR)

# NOISE BARRIER SCOPE SUMMARY REPORT



On Route:

Eastbound I-580 in City of Oakland, Alameda County

From:

KP 67.1 (PM 41.7) West of 14th Avenue

To:

KP 67.9 (PM 42.2) at Ardley Avenue

I have reviewed the right of way information contained in this Noise Barrier Scope Summary Report and the R/W Data Sheet attached hereto, and find the data to be complete, and accurate:

R. A. MACPHERSON, DISTRICT DIVISION CHIEF - RIGHT OF WAY

APPROVAL RECOMMENDED:

ROBERT A. ANDERSON, PROJECT MANAGER

APPROVED:

BIJAN SARTIPI, DISTRICT DIVISION CHIEF-DESIGN EAST

6/26/01

DATE

### 04 - ALA - 580 KP 67.1/67.9 (PM 41.7/42.2)

This Noise Barrier Scope Summary Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations,

conclusions, and decisions are based.

WELLINGTON B. LEE, REGISTERED CIVIL ENGINEER

3-28-10C

DATE



### PROJECT SUMMARY

Based on the request of the Alameda County Congestion Management Agency (ACCMA), this Noise Barrier Scope Summary Report (NBSSR) proposed a soundwall to be constructed on south side of eastbound route 580 near 14<sup>th</sup> Avenue to Ardley Avenue in the City of Oakland. The total cost is \$507,000 (excluding Caltrans engineering support) with protection of 16 residential units. The unit cost is \$31,688, which is less than \$45,000 of ACCMA's maximum amount per unit. The noise levels of 16 residential units exceed 67 dBA caused by freeway traffic. A new soundwall can reduce noise level by a minimum of 5 dBA. The alternative solution for the project is no build.

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	C. Project Category		
	C. Project Category		
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Attachment D.	Aeria	l Photo of Proposed Soundwalls between 14 <sup>th</sup> Avenue a	nd Ardley			
	Aven	ue in the City of Oakland, Alameda County, CA (1-22-9	8, 1:2400,			
	04-A]	LA-580, 22-101, CALTRANS ASC.9841, LOC.04-2, F	L 610 mm)			
Attachment E.	Typic	al Sections:				
•	E-1.	Typical Section of Soundwall A at F-Line Station 219	+00 English			
		(Based on As-Built-Plans, Structure & Construction				
		Recommendations)				
	E-2.	Typical Section of Soundwalls A and B at Overlap Se	ction (close			
		to F-Line Station 221+75 English)				
	E-3.	Typical Section of Soundwall B (close to F-Line Stati	on 224+00			
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Attachment F.	As-Built-Plans:					
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•	F-2.	Construction Details				
	F-3.	Drainage and Sanitary Sewers				
	F-4.	Highway Lighting				
Attachment G.	Right	of Way Data Sheet				
Attachment H.	Prelin	ninary Geotechnical Report				
Attachment I.	Prelin	minary Structure Design Report				
Attachment J.	Prelin	ninary Environmental Review				
Attachment K.	PYPS	PYPSCAN and XPM				
Attachment L.	NBS	SR PERFORMANCE MEASURES	•			

### NOISE BARRIER SCOPE SUMMARY REPORT

#### 1. INTRODUCTION

A. Proposal and Limits

It is proposed to construct a soundwall on Route 580 eastbound from KP 67.1 to 67.9 (PM 41.7 to 42.2) near 14<sup>th</sup> Avenue to Ardley Avenue in the City of Oakland in Alameda County. The location map, layout and aerial photo are shown on Attachments A, B, and D.

The alternative solution for the project is no build.

B. Deficiencies & Justification

The 1998 State Transportation Improvement Program (STIP) Augmentation identified \$5.0 million in reserves for soundwall construction in Alameda County for 2000 STIP. The Alameda County Congestion Management Agency (ACCMA) requested the California Department of Transportations (Caltrans) for this summary report, and it is consistent with its overall transportation priorities and objectives.

C. Project Category

This project is anticipated to be a Category 5 project because of its minimal economic, social and environmental impacts.

#### 2. BACKGROUND

A. Funding Source:

**ACCMA** 

(1) Is project in STIP? Yes

This project is a candidate of 2000 STIP programs prior to the 2002 STIP. Federal funds have contribution in the STIP funding source. Amendment and approval is required for this project to be programmed in 2000 STIP. It is suggested that ACCMA send a formal request to Caltrans through Metropolitan Transportation Committee (MTC) for the amendment and approval as soon as this NBSSR is approved.

(2) Is project being advanced by local agency with costs to be paid back by State? <u>NO</u>

The MTC's Final 1998 Regional Transportation Plan (RTP), amended May 1999 earmarked \$5.0 million for soundwall construction in Alameda County under reference number 98208.

#### B. Public Involvement

(1) Community support and/or opposition:

Caltrans and the ACCMA have received residential complaints concerning excessive freeway traffic noise at this location. See Attachment A. Presently there is no opposition to the proposed soundwall project.

- (2) Proposed community contact about the proposed noise barrier and aesthetics: Public involvement will be initiated during the design phase to obtain public input.
- (3) Commitments to Local Agencies:

With passage of Senate Bill 45, Caltrans Community Noise Abatement Program / HB311 Program was eliminated along with the application of the State noise policy for this soundwall project. Responsibilities for soundwall construction and justification were transferred from Caltrans to the Congestion Management Agencies.

Caltrans is committed to complete a Noise Barrier Scope Study Report (NBSSR) so that the ACCMA can determine if soundwall construction at this location is feasible. Meetings with the ACCMA were conducted.

# C. Project Priority

(1) On Statewide Priority List? <u>NO</u>

(2) Priority Index (PIN)? <u>NA</u>

#### 3. DESIGN INFORMATION

### A. Existing Facility

(1) Route 580 between 14<sup>th</sup> Avenue and Ardley Avenue in the City of Oakland is an eight-lane freeway that consists of four 3.7-m lanes in each direction, 2.4-m inside shoulder, 3.0-m outside shoulder. This location has not experienced major reconstruction since its original construction.

The proposed project has two sections of Soundwalls: A and B (See Attachments B and D). The first section, Soundwall A, will be constructed on the eastbound 14<sup>th</sup> Ave. U.C. On-Ramp/Bridge (#33-309-OL) with F Line Stations from 218+00 to 222+25 in English unit (Attachment B). Typical cross sections are in Attachment E. The two soundwalls will be constructed on different elevations (Attachment F-1). There is a 46-m overlap between the two soundwalls. The offset distance between the two soundwalls at the overlap varies between 15 - 18 m (50' - 60'). This overlap meets with the overlap requirement in Caltrans DHM Chapter 1100 for a minimum of 2.5 to 3 times the offset distance in order to

maintain the integrity of the sound attenuation.

(2) Right of Way and Fencing

The second section is Soundwall B which is to be constructed inside the existing State's Right of Way (R/W) and replaces the existing Chain Link Fence (Attachment B). The Chain Link Fence will be removed during the construction. The Soundwall B is at F Line Stations from 220+75 to 227+30 in English unit. The dimensions of Soundwall B are 4.27 m high and 200 m long.

Construction easement is required for partial construction of Soundwall B (Attachment B). The easement area is about 167 m<sup>2</sup> [3.0 m (in width) x 55 m (in length)], parallel to the State's Right of Way and Chain Link Fence.

Based on the estimate from Caltrans Right of Way, Right of Way lead time will require a minimum of 14 months and shall start no later than November 2001 (see PYPSCAN in Attachment K-1).

#### B. Traffic Data

(1) Current Year: 1999

ADT 186,000 % Trucks 0.9 Peak Hour 14,600 Peak Month 191,000

(2) Design Year: 2020

ADT <u>254,273</u> (Assume Annual Increase 1.5%) DHV <u>19,070</u> (7.5% of ADT)

#### C. Field Review

(1) District Personnel (Name/Branch): Date: 03/06/2000

Chuan Chen, Advance Planning

Shiang Yang, Environmental Engineering (Noise Study)

(2) District Program Advisor Field Review? Yes Date: 02/25/2000

(3) Others: Wellington B. Lee, Advance Planning Date: 10/16/2000

#### D. Noise Study

(1) Noise Study Completed? Yes Date: 05/12/2000

(2) Noise Report Prepared? No Date:

For effective noise reduction from freeway traffic, it is recommended to construct a soundwall in two parts due to geographical elevation difference (Attachment D):

(a) Soundwall A: - Construction on the shoulder eastbound I-580.

- F-Line Station from 218+00 to 222+25 (English Unit).
- Dimension 0.2 m x 4.27 m x 130 m (thickness x height X length).
- (b) Soundwall B: Construction on R/W Line.
  - F-Line Station from 220+75 to 227+30 English.
  - Dimension 0.2 m x 4.27 m x 200 m (thickness x height X length).

Note: There is about 46-m overlap between Soundwalls A and B (Attachment E-2).

#### 4. PROPOSAL

### A. Description

Based on a noise analysis by the Caltrans Office of Environmental Engineering, two soundwalls are proposed to be constructed on Route I-580 eastbound near 14<sup>th</sup> Avenue to Ardley Avenue from KP 67.1 to 67.9 (PM 41.7 to 42.2) in the City of Oakland, Alameda County. The noise study results indicate that current noise levels caused by freeway traffic exceed 67 dBA (HB311 criteria). The proposed soundwalls, 4.27 m high and 330 m long (14' x 1080'), will reduce noise levels by a minimum of 5 dBA for 16 residential units. The soundwall material is proposed to be masonry blocks (or concrete panels as alternative).

### B. Value Analysis (VA) Study

Article 2 of Caltrans Project Development Procedures Manual (7<sup>th</sup> Edition, July 1, 1999) states: "The District Annual VA Program should consider any State transportation projects developed by Caltrans, local agencies, consultants, or private developers that are estimated to exceed one million dollars." The estimated cost of this project is \$507,000, which is under one million dollars. Therefore, a VA study for this project is not required.

# C. Acceptable Noise Barrier Materials for Proposed Project:

- (1) Masonry Block
- (2) Concrete Panel

# D. Noise Study Recommendations

Wall No. (Part)	Limits *	Length (m)	Ht.**	Direction(nb,sb,eb ,wb) and Location (r/w line, shoulder or elsewhere)	Comments
	F-Line Station: 218+00 to 222+25	130	4 27	Eastbound,	Construction on Bridge structure plus piles.
	F-Line Station: 220+75 to 227+30	200		Eastbound, Chain Link	On 0.41 m diameter piles, 4.27 m depth, and 4.88 m spacing.

<sup>\*</sup> Existing facility (Stationing in English Unit)

### E. Noise Barrier Foundation

# (1) Geotechnical Analysis

A Preliminary Geotechnical Report (Attachment H) recommended that the proposed soundwall foundation need piles as:

Soundwall No.	Wall Height (m)	Pile Spacing (m)	Pile Depth (m)	Pile Diameter (m)	Total Pile Length (m)
A	4.27	2.44	3.73	0.36	146
В	4.27	4.88	4.27	0.41	179

# (2) Soil and Other Conditions

The soil and other conditions at the proposed-soundwall location would not require nonstandard foundations. Standard foundations appear to be appropriate.

(3) A further investigation and analysis by geotechnical engineers during PS&E phase will be required with estimated schedule and hours:

<sup>\*\*</sup> Height as defined in HDM Section 1102.7(3)

Service	Estimated Hours	WBS Level 6	Estimated Duration
Field Work/Drilling	160	185.20	1 month*
Laboratory Analyses	80	185.20	1 month
Data Analyses/Design	80	185.20	0.5 month
Reporting	80	185.20	0.5 month
TOTAL	400	185.20	3 months

<sup>\*</sup> Drilling may be delayed during the winter/spring period due to rainfall.

# F. Design Details Required for Project

Pavement/shoulder rehabilitation or reconstruction	<u>Yes</u>
Drainage	$\underline{Yes}$
Signs	$\underline{\text{Yes}}$
Lighting	<u>no</u>
Utility Relocation	<u>Yes</u>
Structure Work	$\underline{\text{Yes}}$
Highway Planting	<u>Yes</u>
Planting/Irrigation Modification	<u>Yes</u>
Ramp Metering	<u>No</u>
Other (Describe) Removal of Chain Link Fence for Soundwall B.	<u>Yes</u>

# G. Nonstandard Design Features

- (1) Mandatory? No
- (2) Advisory? No

#### H. Cost Estimate

<u>Items</u>	Project Cost (\$)	Support Cost (\$)	Support Cost (%)
PA/ED + Supplement/PR		38,640	8
PS&E		72,450	15
R/W	\$24,000	9,660	2
Construction	\$483,000	72,450	15
Total	\$507,000	193,200	40

Note: (a) The Project Cost is based on Attachment C;

- (c) The estimate for Support Cost is based on the data of previous projects in percentage to Construction Cost. It includes 4 phases as above in the table;
- (d) The support-cost estimate generated from XPM Work Sheet (Attachments K-2 and K-3) is \$771,300, about 160% of the construction cost. It is too high to be used for this project.

### I. Analysis of Proposal

(1) Cost effectiveness

# (a) ACCMA policies:

When Senate Bill 45 was signed into state law in 1997, the responsibility for funding soundwalls that are not part of new freeway construction devolved from Caltrans to the local Congestion Management Agencies (CMA). The proposed policies and process for CMA approval of soundwalls revised by ACCMA states:

- "(i) Only residences developed prior to opening at the freeway will be considered for noise abatement.
- (ii) The term "approaching" is defined as 2 decibels below the federal criterion of 67 decibels. A level of 65 decibels will be used to encompass the CMA's definition of "approaching 67 decibels."
- (iii) The maximum amount of \$45,000 per dwelling unit may be adjusted periodically to reflect current construction costs.
- (iv) Soundwalls will not be considered for commercial areas and parking lots."

### (b) Cost effectiveness:

With an estimated project capital cost of \$507,000 and 16 residential units to be protected, the cost per unit is \$31,688, which is less than the maximum amount of \$45,000 in ACCMA's policies. So the proposed soundwall construction remains

cost effective.

### (2) Noise Reduction

- 5 dBA reduction, minimum? Yes

  Based on the noise study conducted by Caltrans Environmental Engineering, a minimum noise reduction of 5 dBA can be achieved by construction of the proposed soundwall.
- 67 dBA noise level met? Yes

  Total number of 16 homes exceeds 67 dBA noise level caused by freeway traffic.
- Line of sight to Truck Exhaust Stack Intercepted? N/A
   This part of I-580 allows no heavy truck traffic.

### J. Funding and Staffing

- (1) Any Cooperative Features? <u>No</u>
- (2) Project Support:

Attachment K-2 presents the needed resources and charge centers in hours and PY's for project support, which is also summarized in Section H above.

(3) Oversight Personnel Years (Caltrans Only): N/A

# K. Programming and Scheduling

(1) Proposed Project Schedule (also see PYPSCAN, Attachment K-1):

Milestone	<u>Date</u>
NBSSR	06/2001
2000 STIP Amendment	11/2001
PA/ED + NBSSR Supplement/PR	03/2002
PS&E	10/2003
R/W Certification	12/2003
Ready To List	02/2004
HQ ADV	05/2004
Approved Contract	08/2004
JOB Completion	08/2005

# (2) Proposed Budgetary Description:

Soundwall Estimated Construction Cost: \$507,000
 Candidate: 2000 STIP

 Note: Amendment and approval is required for this project to be programmed in 2000 STIP. It is suggested that ACCMA send a formal request to CALTRANS through MTC for the amendment and approval.

### 5. OTHER CONSIDERATIONS

### A. System Planning

The MTC's RTP and ACCMA's 1998-2018 Long Range Transportation Plan "Transportation Vision 2018 and Beyond" do not anticipate future widening at this location. Caltrans' Route Concept Report for I-580 also does not expect future widening.

#### B. Hazardous Wastes

There is no evidence of hazardous waste at the sites of proposed soundwall construction.

• Has an Initial Site Assessment been completed? Yes Date: 08/08/2000 An initial site assessment (ISA) at the location of the proposed soundwall was conducted by the Caltrans Office of Environmental Engineering. There was a potential aerial lead contamination in the unpaved shoulder area for the proposed Soundwall A due to the aerial deposition of lead from motor vehicle exhaust. It was recommended to conduct soil testing during early PS&E stage. If the test reveals lead contamination in soil, the soil will be handled according to regulatory requirements. The cost is included in the estimate.

### C. Historic Architectural Resource Studies

• Has a historic Site Assessment been completed? Yes Date: 02/16/2001 Because federal funds have contribution in the STIP funding source, Cultural Resources (Section 106) comply. A preliminary site assessment at the location was conducted by the Office of Environmental Planning South, indicating there is need for historic architectural studies at the site during PS&E phase.

#### D. Traffic Control

(1) Transportation Management Plan? <u>Minor TMP Required</u>

The construction of the soundwall will be located on the edge of shoulder for Soundwall A and along the Caltrans-Right-of-Way line (replacing exiting Chain Link Fence) for Soundwall B. A temporary K-Rail will be used for protection and separation between traffic and construction work. There is no lane closure required during the soundwall construction except for K-rail placement and removal. Lane closure charts are needed for

K-rail placement and removal. Based on preliminary studies conducted by Caltrans Traffic Planning, Traffic Control, Highway Operation and Transportation Management, the soundwall construction would not have any significant impact on the freeway and local roads.

### (2) Any prolonged temporary ramp closures? <u>Not Required</u>

The construction of soundwall A on the undercrossing On-ramp Bridge at 14<sup>th</sup> Avenue does not require ramp closure. However, the single-on-ramp traffic lane will be narrowed to 3 (10') m from 3.7 m (12') by K-rail. It will serve as a temporary traffic lane during construction at off-peak hours between 9:00 a.m. to 3:00 p.m. There is no lane closure required during the soundwall construction except for K-rail placement and removal. Lane closure charts are needed for K-rail placement and removal.

### E. Wetlands/Floodplain and Hydraulics

(1) Wetland/Floodplain
The proposed soundwalls are not located near any wetlands and floodplain.

### (3) Hydraulics

The E Curb and AC surfacing will remain in place as shown on Attachments E-2 and F-1. The foundation of Soundwall A and the pile foundation of Soundwall B shall be placed as not to interfere with the drainage system at D-Line Station 20+40.

### F. Permits required for Project

Agency	Yes / No	Date Contacted	Results
Fish & Game	No	N/A	N/A
Corp. of Engineers	No	N/A	N/A
Coastal Commission	No	N/A	N/A
BCDC (DST. 4)	No	N/A	N/A
Local flood control district	No	N/A	N/A
Construction Easement (R/W)	Yes	09/29/2000	Permit required before construction.
Utility Relocation	Yes	10/19/2000	Permit required before construction.

### H. Right of Way (R/W)

- General A right of way data sheet has been prepared based on the scope of
  work described and on the proposed plan. Estimated cost information is
  contained in the Right of Way Data Sheet in Attachment G. There are 2
  temporary construction easements required for this job. All parcel requirements
  impact residential land.
- Railroad There is no railroad involvement on this project.
- Utilities Verifications of utilities will be required. Based on the site reviews, there is a power pole located at F-Line Station 225+00 in English unit, which is in Caltrans' Right of Way and may need to be relocated during construction. Determination of this need must be made by Design prior to PS&E in order for R/W to provide proper notice to the utility company.

#### 6. PROJECT REVIEWS

District Program Advisor?	<u>Yes</u>	Date: 12/01/2000
Headquarters Program Advisor?	No	Date: 02/15/2001
PD Coordinator (Gordon Brown)?	Yes	Date: 01/30/2001
Design Reviewer (Gordon Brown)?	Yes	Date: 01/30/2001
FHWA Transportation Engineer?	<u>N/A</u>	Date:
Type of Federal Involvement	Exemt	ot (Eligible for federal reimbursement)

#### 7. ENVIRONMENTAL STATUS

Based on the project's scope and location, a Preliminary Environmental Review concluded that the proposed soundwall construction will not have a significant effect on the environment. It will satisfy the requirements for a Categorical Exemption (CE) under CEQA and for a Categorical Exclusion under NEPA. However, this determination is contingent upon the existing project description. In addition, measures may be required to deal with the effects of the project on any sensitive environmental resources identified during the environmental study phase of the project. See Attachment J. Other issues will be further studied during PS&E phase as following:

#### A. Water Pollution Control

 Based on the estimate and evaluation, this project will disturb less than 2 hectares of soil and is not located within and environmentally sensitive area, Standard Special Provision (SSP) 7.34 applies and shall be included in the PS&E to address water pollution control requirements. The project may be required to comply with the additional conditions of Caltrans' NPDES (Order No. 99-06-DWQ, CAS No. 000003) issued by the State Water Resources Control Board (SWRCB). A copy of this permit may be obtained from the SWRCB website at <a href="http://www.swrbc.ca.gov">http://www.swrbc.ca.gov</a>. Please note that the Contractor must prepare and implement a Water Pollution Control Program (WPCP) in accordance with this SSP to minimize the discharge of pollutants from the construction activities related to this project. Also, please write a memo to the Resident Engineer (RE) file stating that a copy of the WPCP shall be sent to the Construction NPDES Coordinator (i.e. Frank Gorham) for review.

- Based on the Preliminary Geotechnical Report (Attachment H), the groundwater level in the vicinity of the project varies from 2 to 8 m below ground surface (bgs). Since the footing of the walls will be 4.27 m bgs, depending on the type of footing that will be used in the project, it might be necessary to perform dewatering during construction. If dewatering will be performed during construction, the project engineer shall initiate a discussion with regards to handling and disposing of groundwater with the Office of Environmental Engineering. If such waters are to be discharged into receiving Waters of the State, appropriate Best Management Practices (BMPs) will be required to reduced or eliminate any discharge of pollution to the extent feasible as described in section A.9 of the Statewide General Construction Permit. A project-specific Waste Discharge Permit may be required if substantial dewatering is to be done. Also, the Hazardous Water Investigation group shall be responsible for testing the water for potential contamination. A dewatering SSP will prepared by us depending on the results of the water testing in order to ensure the proper handing and disposing of the water.
- Given the project working on residential streets (for access), there may be a need for
  contract specific controls (temporary drainage inlet protection). Following approval
  of this NBSSR, PS&E phase is required to send a request to the Cost Center in
  Landscape Architecture for erosion and sediment control recommendations. A similar
  request should go out to Environmental engineering as well.

### B. Historic Architectural Resources Studies

Based on the preliminary inspection at the site, there is a need for historic architectural resources studies during PS\$E phase as stated in Section 5C above.

# 8. PROJECT PERSONNEL

<u>Name</u>	Organization/Branch	Phone
Robert A. Anderson, Project Manager	Supervisor, Design Alameda I	(510) 286-6155
Chuan Chen, Project Engineer	Advance Planning	(510) 622-1665
Wellington B. Lee, Project Engineer	Advance Planning	(510) 622-5972
Ben Chuck	Senior, Advance Planning	(510) 286-5566
Michael Kay	Senior, Advance Planning	
Victor Zeuzem, Program Advisor	Senior, Environmental Engineering	(510) 286-5677
Shiang Yang	Environmental Engineering	(510) 286-5652
	Technical Liaison,	(916) 227-8605
John Bither	HQ Structures APS (ESC)	(910) 221-8003
Jeff A. Fippin	HQ Office of Roadway Geotechnical Engineering – North	(916) 227-6980
Jennifer Muir	Right of Way Project Coordinator	(510) 286-5450

#### 9. ATTACHMENTS

Attachment A. Location Map

Attachment B. Noise Barrier Strip Map (Layouts)

Attachment C. Preliminary Project Cost Estimate Summary

Attachment D. Aerial Photo of Proposed Soundwalls between 14th Avenue and Ardley

Avenue in the City of Oakland, Alameda County, CA (1-22-98, 1:2400,

04-ALA-580, 22-101, CALTRANS ASC.9841, LOC.04-2, FL 610 mm)

Attachment E. Typical Sections:

E-1. Typical Section of Soundwall A at F-Line Station 219+00 English (Based on As-Built-Plans, Structure & Construction Recommendations)

E-2. Typical Section of Soundwalls A and B at Overlap Section (close to F-Line Station 221+75 English)

E-3. Typical Section of Soundwall B (close to F-Line Station 224+00 English)

E-4. Typical Section of Soundwall B with Construction Easement (close to F-Line Station 226+50 English)

Attachment F. As-Built-Plans:

F-1. Pavement Elevations & Grading Contours with Soundwall Layouts

F-2. Construction Details

F-3. Drainage and Sanitary Sewers

F-4. Highway Lighting

Attachment G. Right of Way Data Sheet

Attachment H. Preliminary Geotechnical Report

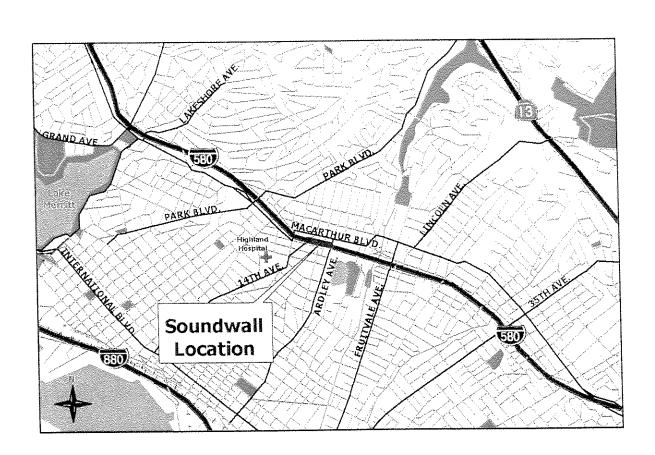
Attachment I. Preliminary Structure Design Report

Attachment J. Preliminary Environmental Review

Attachment K. PYPSCAN and XPM

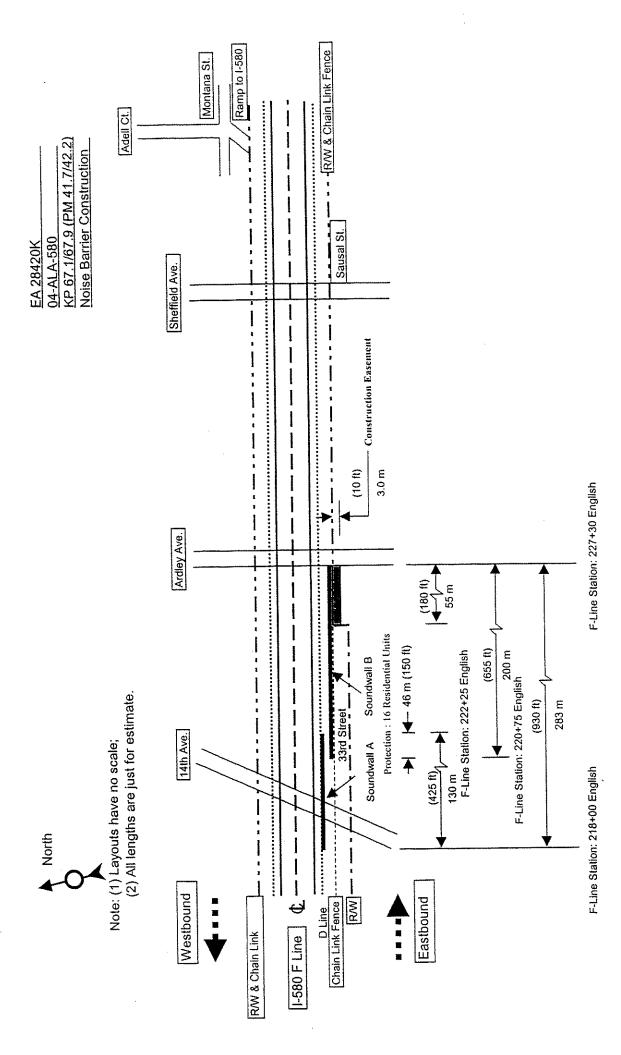
Attachment L. NBSSR PERFORMANCE MEASURES

Attachment A. Location Map



Attachment A. Location Map

Attachment B. Noise Barrier Strip Map (Layouts)



Attachment B. Noise Barrier Strip Map (Layouts)

Attachment C. Preliminary Project Cost Estimate Summary



DIST-CO-RTE: 04-Ala-580

KP: 67.1 / 67.9

				PM:	41.7 / 42.2	
•				EA:	28420K	
Project Description: C	onstruct soundwall on sout	th side of Eastbound	Route 580			
<u>fro</u>	om 14th Avenue to Ardley	Avenue in the City o	of Oakland, Alameda C	ounty.		
Limits: 14	th Avenue to Ardley Aven	ue		· · · · · · · · · · · · · · · · · · ·		
Proposed						
Improvement (Scope): C	onstruct a soundwall on th	e Eastbound Route 5	80			
fro	om 14th Avenue to Ardley	Avenue in the City of	of Oakland, Alameda C	ounty.		
Alternative:	2 (Alternative	1 is no build.)				
				_		
	ROADWAY ITEMS			\$	483,000	
	STRUCTURE ITEMS			\$	-	
SURTOT	AL CONSTRUCTION			\$	y	
505101.						
TOTAL DICITE OF	III A V (Comont Volus)			\$	24,000	
IOIAL RIGHT OF	WAY (Current Value)			<del>-</del>		
				\$	507,000	
TO	TAL PROJECT COST			Ф	307,000	
	<i>[.]</i> -	+/7/1	nder sono.	/E40\ ·	200 0155 Doto	6/5/0
Approved By Project	Signature Sept	1.00	nue jeone No.	(0 IU)	200-0100 Date	
Manager		Robert A. Anders	son			

DIST-CO-RTE: 04-Ala-580
KP: 67.1 / 67.9
PM: 41.7 / 42.2
EA: 28420K

### I. ROADWAY ITEMS

### Section 1 - Earthwork

	Quantity	Unit	Unit Price	Item Cost Section Cost	ţ
Roadway Excavation	<u>150</u>	$\underline{\mathbf{m}}^3$	<u>\$ 20</u>	\$ 3,000	
Roadway Fill				<u>s</u>	
Imported Borrow				<u>\$</u>	
Clearing & Grubbing	<u>LS</u>		<u>\$</u>	<u>\$ 12,000</u>	
Develop Water Supply				<u>\$</u>	
Removal of Chain Link Fence	<u>200</u>	<u>m</u>	<u>\$ 20</u>	<u>\$ 4,000</u>	
				÷*	

Total Earthwork \$ 19,000

### Section 2 - Pavement Structural Section\*

	Quantity	Unit	Unit Price	Iten	n Cost	Section Cost
New Pavement(Depth)			<u>\$ -</u>	\$		
Pavement Overlay(Depth)	·		<u>s - </u>	\$	-	ı
Asphalt Concrete			<u>\$ -</u>	\$	_	
Lean Concrete			<u>s - </u>	\$	_	
Cement-Treated Base			<u>s - </u>	\$	_	
Aggregate Base			<u>s - </u>	\$	-	
Aggregate Subbase			<u>\$ -</u>	\$	-	
Permeable Material Blanket			\$ -	\$	-	
& Edge Drains						

Total Structural Items <u>\$ -</u>

### Section 3- Drainage

	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Large Drainage Facilities Storm Drains			<u>\$ -</u> \$ -	<u>\$</u> -	
Pumping Plants			<u>\$</u> -	\$ - \$ -	
Project Drain (X-Drain, oversize, etc) Others			\$ -	\$ 20,000 Total Drainage	\$ 20,000

<sup>\*</sup> Attach sketch showing typical structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.

DIST-CO-RTE: 04-Ala-580 KP: 67.1 / 67.9 PM: 41.7 / 42.2 EA: 28420K

### Section 4- Specialty Items

	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Retaining Walls		$\underline{\mathbf{m}^2}$	<u>s -</u>	<u>s -</u>	
Soundwalls	<u>1409</u>	$\underline{\mathbf{m}^2}$	<u>\$ 150</u>	<u>\$ 211,350</u>	
Cast-in-Drilled-Hole Concrete Pile (Soundwall A)	<u>146</u>	<u>m</u>	<u>\$ 120</u>	<u>\$ 17,520</u>	
Cast-in-Drilled-Hole Concrete Pile (Soundwall B)	<u>179</u>	<u>m</u>	<u>\$ 120</u>	<u>\$ 21,480</u>	
Remove Bridge Railing (Type I for Soundwall A)	<u>58</u>	<u>m</u>	<u>\$ 150</u>	<u>\$ 8,700</u>	
Remove Concrete (Soundwall A)	<u>2</u>	$\underline{\mathbf{m}^3}$	\$ 2,000	<u>\$ 4,000</u>	
Minor Concrete (Barrier Slab for Soundwall A)	<u>12</u>	$\underline{\mathbf{m}}^3$	<u>\$ 800</u>	<u>\$ 9,600</u>	•
Concrete Barrier (Type 27 for Soundwall A)	<u>58</u>	<u>m</u>	<b>\$</b> 250	<u>\$ 14,500</u>	,
Equipment/ Animal Passes			<u>\$</u>	<u>s – </u>	
Relocate Private irrigation Facilities			\$ -	<u>\$</u>	
Landscaping/Irrigation (normally separate project)			<u>\$</u>	<u>\$ 32,000</u>	
Erosion Control	<u>3967</u>	$\underline{\mathbf{m}^2}$	\$ 0.80	\$ 3,174	
Water Pollution Control (during construction, inc	cluding tempor	ary drainage	inlet protectio	s <u>1,500</u>	
Barriers and Guardrails		<u>m</u>		<u>\$</u>	
Hazardous Waste Work	<u>50</u>	$\frac{\mathbf{m}}{\mathbf{m}^3}$	<u>\$ 300</u>	<u>\$ 15,000</u>	
Environmental Mitigation			<u>s - </u>	<u>\$</u>	
-			Tota	l Specialty Items	\$ 338,824

### Section 5 - Traffic Items

	Quantity	<u>Unit</u>	Unit Price Iten	n Cost	Section Cost
Lighting			<u>\$ - \$</u>	_	
Traffic Signals			<u>s - s</u>		
Permanent Signing			<u>s - s</u>	<del></del>	
Traffic Control Systems			<u>s - s </u>		
Traffic Management Plan (K-rail placement & removal)	1	PCMS	<u>\$ 1,000  \$</u>	1,000	
Temporary Railing (Type K)	<u>259</u>	<u>m</u>	<u>\$ 80 \$</u>	20,720	
Others			<u>\$ - \$</u>		
			Total Trai	ffic Items	\$ 21,720

**TOTAL SECTIONS 1-5** \$ 400,000

DIST-CO-RTE: 04-Ala-580 KP: 67.1 / 67.9 PM: 41.7 / 42.2 EA: 28420K

#### Section 6 - Minor Items

**Unit Cost** 

Section Cost

20,000

Subtotal Section 1-5

20,000 5% = \$ 400,000 x

Total Minor Items \$

#### Section 7 - Roadway Mobilization

Subtotal Section 1-5

\$ 400,000

Minor Items

\$ 20,000

Sum

\$ 420,000 x = 0% =

Total Roadway Mobilization

0

### Section 8 - Roadway Additions

Supplemental Work

Subtotal Sections 1-5

\$ 400,000

Minor Items

20,000 \$ 420,000

5% = \$

21,000

Contingencies

Subtotal Sections 1-5

\$ 400,000

Minor Items

20,000

sum

sum

 $420,000 \times (10\%)^* =$ 

Total Roadway Additions \$ 63,000

TOTAL ROADWAY ITEMS (Total of Sections 1-8) \$ 483,000

Estimate Prepared by: Chuan Chen

Phone: (510) 622-1665 Date: 12-18-2000

(Prite Name)

Estimate Checked by: Wellington B. Lee Phone: (510) 622-5972 Date: 12-27-2000

(Prite Name)

\* Use 25% at the PSR stage or a higher or lower rate if justified.

(If appropriate, attach additinoal pages and backup)

Bridge Name Structure Type Width (out to out) Span Lengths Total Area

Cost \*

# PRELIMINARY PROJECT COST ESTIMATE SUMMARY

			·		PM: 41.7 / 42.2 EA: 28420K	
II. STRUCTURES ITEMS						
ſ	Units	Structure 1	Structure 2	Structure 3	Structure 4 & 5	
Bridge Name						
Structure Type Width (out to out)	m	<u>0</u>	<u>0</u>	<u>0</u>	<u>o</u>	
Span Lengths	m	<u>0</u>	$\overline{\underline{\mathbf{o}}}$	<u>0</u>	<u>0</u>	
Total Area	$m^2$	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
Footing Type (pile/spread)						
Cost *	per m <sup>2</sup>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
Total Cost Per Structure		<u>s</u>	<u>s -</u>	<u>s</u>	<u>s</u> -	
	* - include	s 10% mobili	zation and 20	% continger	ncy	
		S	Subtotal Struc	tures Items -	· \$ +	
		L.	dotour budo	turo itomo		
			Railroad Re	elated Costs:	<u>s - </u>	
			Subtotal Ra	ilroad Items	<u>s -                                   </u>	
		TOTAL S	TRUCTURI	ES ITEMS -	· \$ -	
	(	Sum of Struc	tures plus Rai	ilroad Items)		
Comments:						
All structures items	have been	incorporated i	n Section 4 - S	pecialty Items	S.	
		·				
	d Madani te Name)	Phone: (916	5) 227-8366	Date: <u>09-12-</u>	<u>-2000</u>	

DIST-CO-RTE: 04-Ala-580

KP: 67.1 / 67.9

DIST-CO-RTE: 04-Ala-580
KP: 67.1 / 67.9
PM: 41.7 / 42.2
EA: 28420K

#### III. RIGHT OF WAY ITEMS

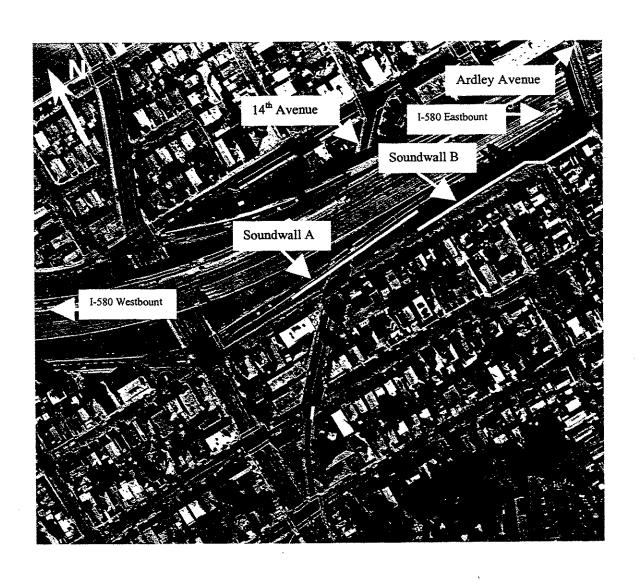
	Current Values (Future Use)	Escalation Escalated Rates Values*
Acquisition, including excess lands and		
damages to remainders(s)	\$ 4,000	<u>9</u> % <u>\$ 4,360</u>
Unitility Relocation (State share)	\$ 20,000	9% \$ 21,800
Clearance/Demolition	\$ -	<u> %</u>
RAP	\$ -	<u></u>
Title and Escrow Fees	\$ -	<u></u> %
CONSTRUCTION CONTRACT WORK	<u>s -</u>	<u></u> %

TOTAL RIGHT OF WAY (CURRENT VALUE)\*\* \$ 24,000 TOT.ESC.R/W \$ 26,160

Comments: Right of Way Lead Time will require a minimum of 14 months after the final right of way requirements (PYPSCAN node No. 224) is received, necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 265), Right of Way Lead Time will require a minimum 11 moths prior to the date of certification of the project. Shorter lead times will require either more right of way resources or an increased number of condemnation suites to be filed. Either of these actions may reflect adversely on the District's other programs or our public image generally.

Estimate Prepared by:	Allison Paich	Phone: (510) 286-5476	Date: 10-19-2000
	(Prite Name)		

Attachment D. Aerial Photo of Proposed Soundwalls between 14<sup>th</sup>
Avenue and Ardley Avenue in the City of Oakland,
Alameda County, CA (1-22-98, 1:2400, 04-ALA-580,
22-101, CALTRANS ASC.9841, LOC.04-2, FL 610
mm)



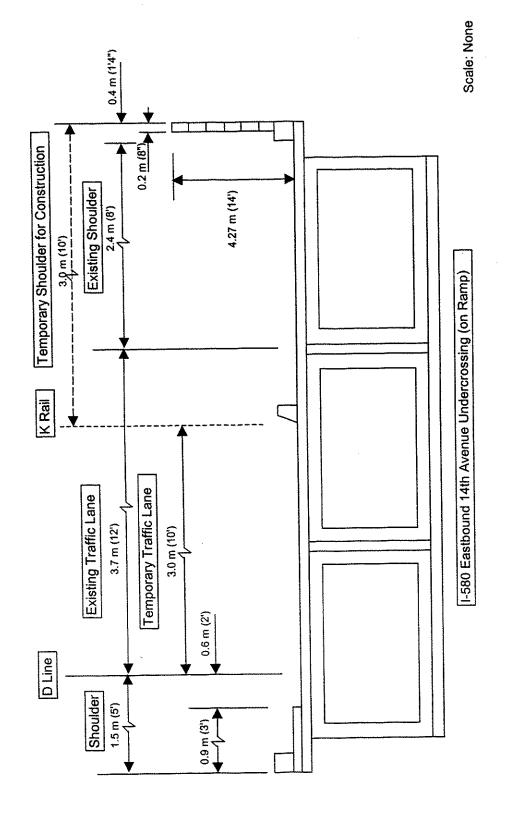
Aerial Photo of Proposed Soundwalls between 14<sup>th</sup> Avenue and Ardley Avenue in the City of Oakland, Alameda County, CA (1-22-98, 1:2400, 04-ALA-580, 22-101, CALTRANS ASC.9841, LOC.04-2, FL 610 mm).

# Attachment E. Typical Sections:

- E-1. Typical Section of Soundwall A at F-Line 219+00 (Based on As-Built-Plans, Structure & Construction Recommendations)
- E-2. Typical Section of Soundwalls A and B at
  Overlap Section (close to F-Line Station 221+75
  English)
- E-3. Typical Section of Soundwall B (close to F-Line Station 224+00 English)
- E-4. Typical Section of Soundwall B with

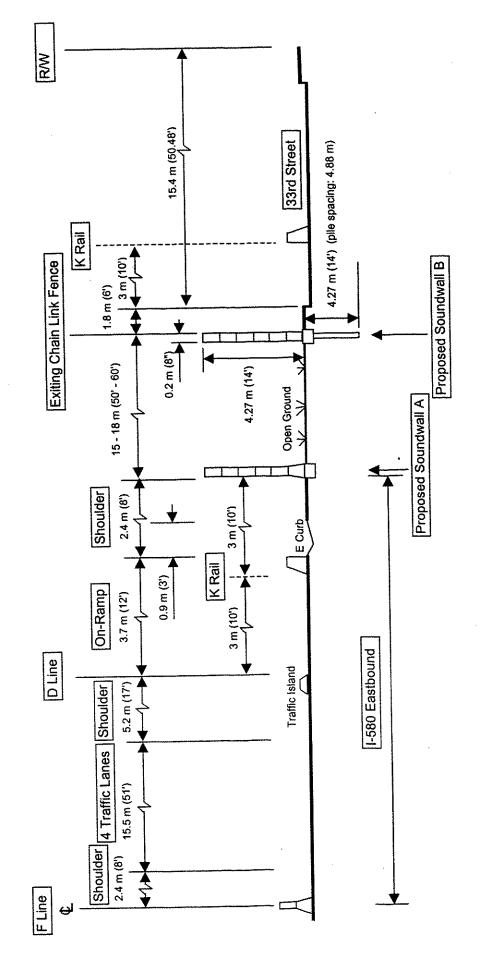
  Construction Easement (close to F-Line Station

  226+50 English)

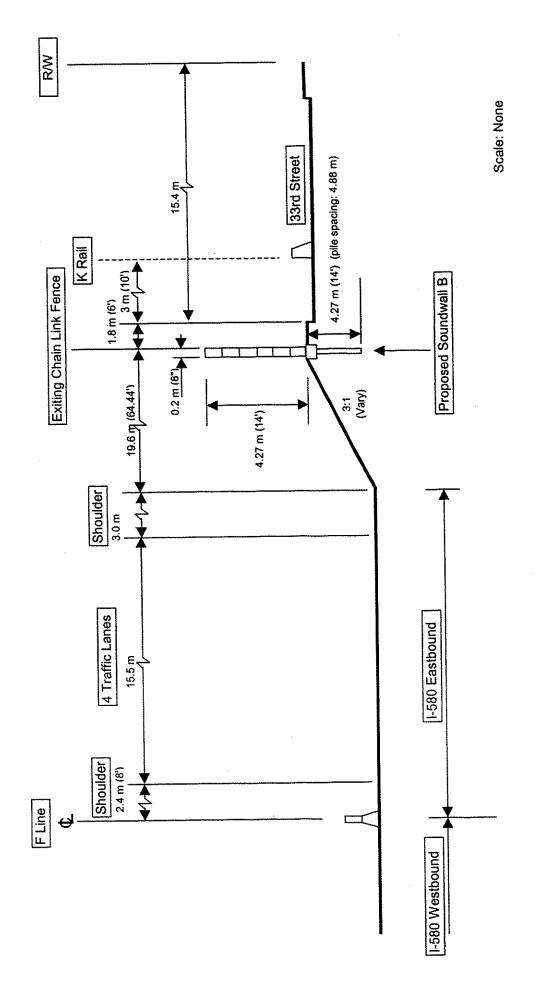


E-1. Typical Section of Soundwall A at F-Line Station 219+00 English (Based on As-Built-Plans, Structure & Construction Recommendations)

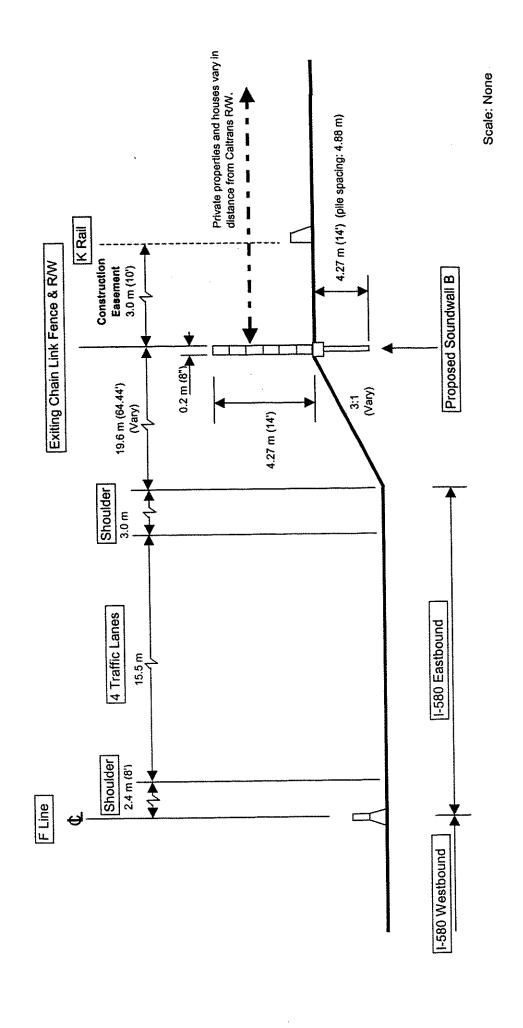
(1) The foundations of the soundwalls shall avoid the drainage system as shown on Attachment F-1; (2) Existing E Curb with the 1.5-m (5') shoulder remains in place; (3) Scale; none.



E-2. Typical Section of Soundwalls A and B at Overlap Section (close to F-Line Station 221+75 English)



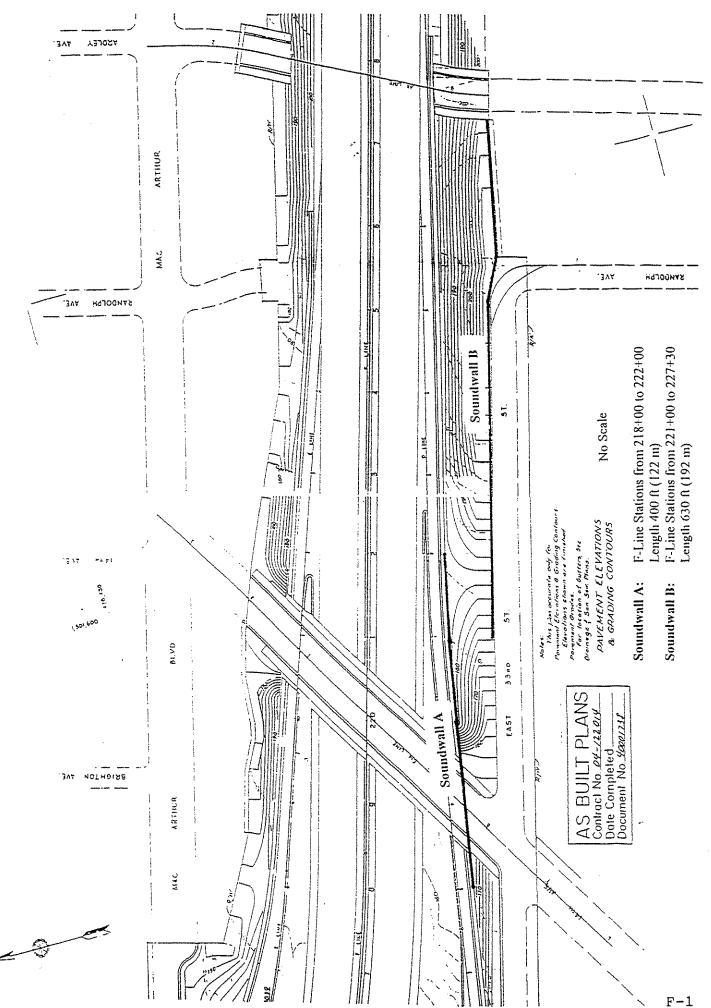
E-3. Typical Section of Soundwall B (close to F-Line Station 224+00 English)



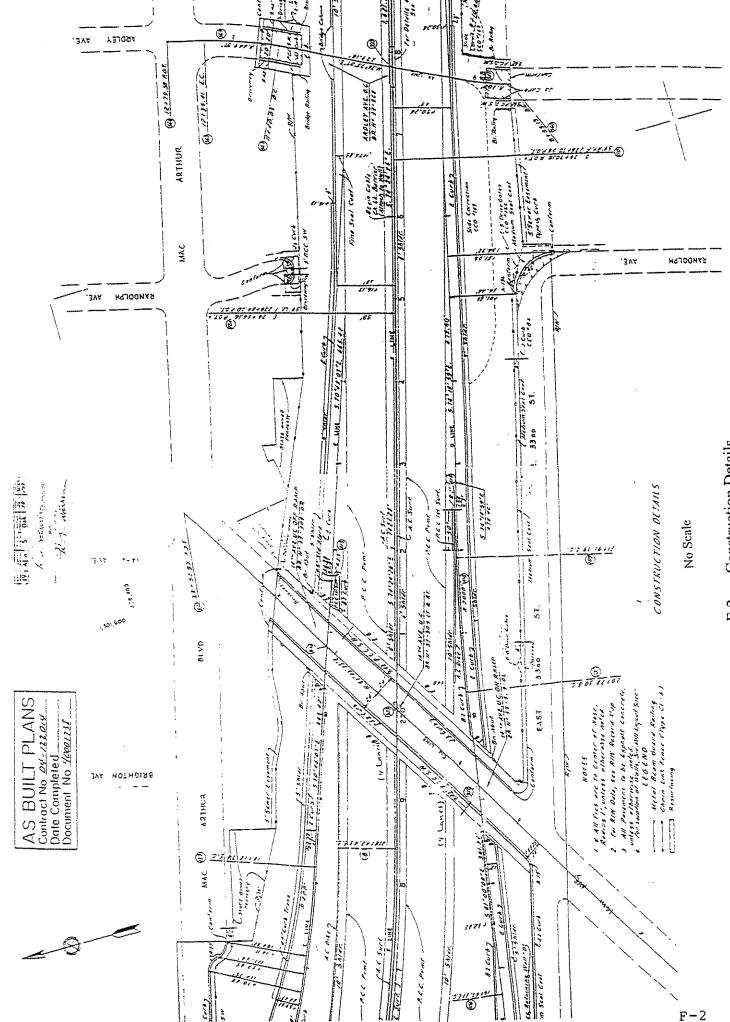
E-4. Typical Section of Soundwall B with Construction Easement (close to F-Line Station 226+50 English)

## Attachment F. As-Built-Plans:

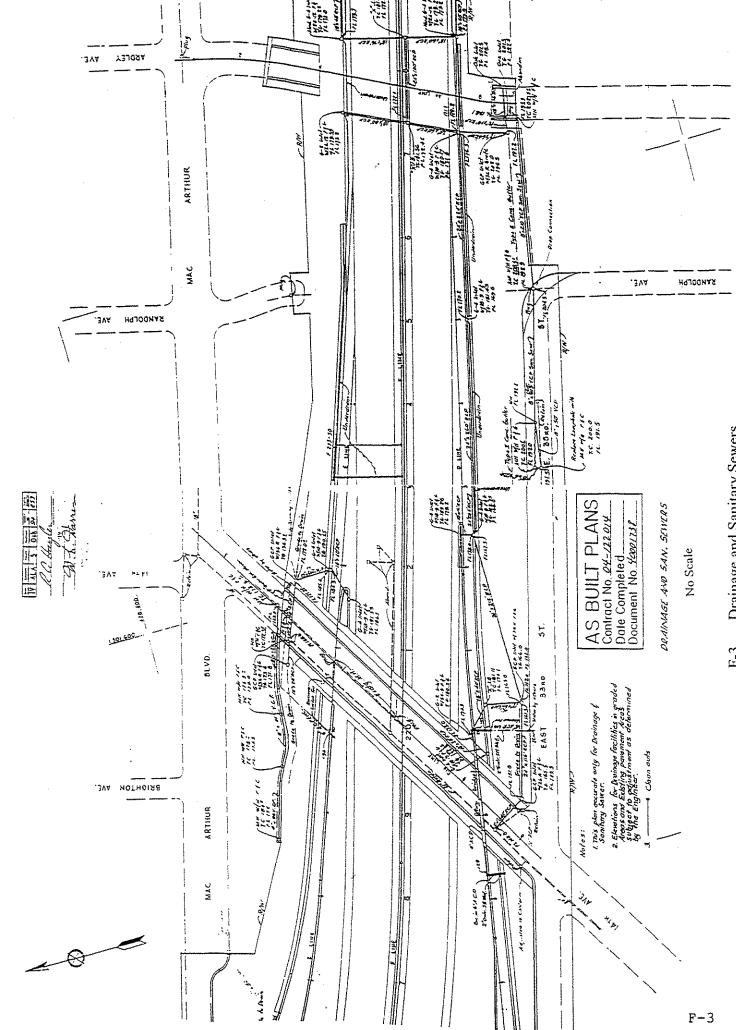
- F-1. Pavement Elevations & Grading Contours with Soundwall Layouts
- F-2. Construction Details
- F-3. Drainage and Sanitary Sewers
- F-4. Highway Lighting



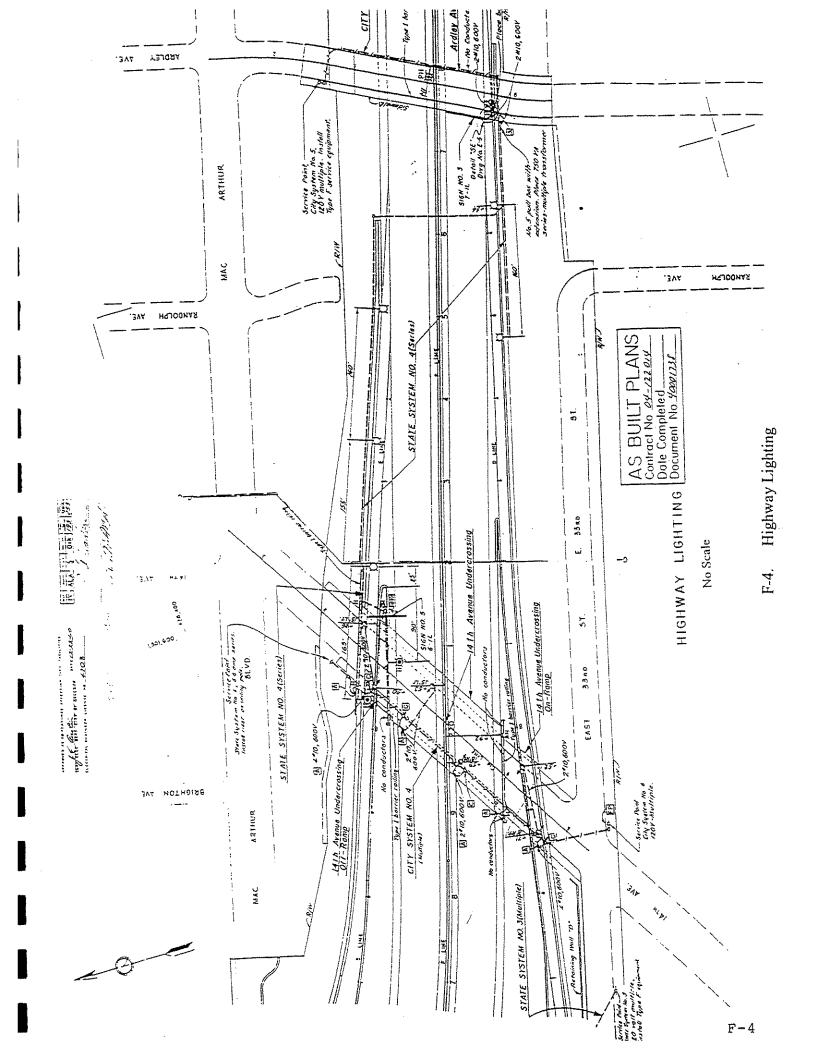
F-1. Pavement Elevations & Grading Contours with Soundwall Layouts



Construction Details F-2.



Drainage and Sanitary Sewers



Utility Information Sheet Railroad Information Sheet

#### RIGHT OF WAY DATA SHEET

TO:	Di	istrict Brach Chief, Traffic	Date	9/29/0	00 42	252		
		•	Dist	<u>04</u> 0	Co Ala	Rte <u>580</u>	KP <u>6</u>	7.1/67.9
ATTN	: В	en Chuck	EA .	28420	)K			
		Project Description:	Const	ruction	of a noise	e barrier.		
SUBJ	ECT:	Right of Way Data – Alternate No.	1	of 1			•	
1.	Righ	t of Way Cost Estimate:		Curren		Escalation		alated Value
	A.	Acquisition, including Excess Lands and Damages	\$	`	e Use) 4,000.00	Rate (3%/Yr x 3Yrs	s) \$	4,360.00
	В.	Loss of Goodwill	\$	·	00.00	%	\$	00.00
	C.	Utility Relocation (State Share)	\$	S	00.00	%	\$	00.00
	D.	Relocation Assistance	\$	S	00.00	%	\$	00.00
	E.	Clearance/Demolition	\$		00.00	%	\$	00.00
	F.	Title and Escrow Fees	\$	·	00.00	%	\$	00.00
	G.	Current Value (Future Use)	\$	S	00.00	%	\$	00.00
	Н.	TOTAL ESCALATED VALUE					\$_	4,360.00
	-	Construction Contract Work	S	·	00.00		•	RT \$4,400.00
2.	Antic	cipated Date of Right of Way Certi	fication			Not availa	ble	
3.	X	el Data: Type <u>Dual/Appr</u>	<u>Utili</u> U4-1	<u>ties</u>	No			Χ
	A B	2	-2 -3			dM Agrmt c Contract		
	C D		-4 U5-7	6	Lic	/RE/Clauses		
	E F		-8 -9		RA	sc R/W Work AP Displ	<del></del>	0
(aven)	Tot	al 2				ear Demo Inst. Permits		0
10.7	-					ndemnation		0
Areas	: Righ	nt of Way <u>(TCE) 1,800 sf</u> No. E	xcess F	Parcels	None .	Excess _		
		S Screens /0 / 3		00	by(	Ja		
Enter	AGRE	E Screen (Railroad data only)		1	1	by		

4.	Are there any major items of construction contract work?  Yes  No  (If yes, explain)
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required
	A TCE will be required to complete the construction of the proposed sound wall. Based on the information provided the estimated area of the TCE is 1,800 square feet. The TCE will affect the rear yards of the following properties.
	APN         USE           O26 -0802-021-01         Single Family Home           026 -0802-034-00         Single Family Home
6.	Is there an effect on assessed valuation? Yes ☐ Not Significant ☐ No ☒ (If yes, explain)
7.	Are utility facilities or rights of way affected? Yes   No   (If yes, attach Utility Information Sheet Exhibit 01-01-05)
	Verifications are required.
8.	Are railroad facilities or rights of way affected? Yes \(\sumset \) No \(\sumset \) (If yes, attach Railroad Information Sheet Exhibit 01-01-06)
9.	Were any previously unidentified sites with hazardous waste and/or material found?  Yes  None evident  (If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)
10.	Are RAP displacements required? Yes  No  (If yes, provide the following information)
	No. of single family No. of business/non profit
	No. of multi-family No. of farms
	Based on Draft/Final Relocation Impact Statement/Study dated, it is Anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.

Exhibit	0	1-	0	1-0	1
Pa	ag	е	3	of	5

11.	Are there material borrow and/or disposal sites required? Yes \( \square\) No \( \text{\titt{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\til\text{\texi\text{\texit{\text{\text{\text{\texi\texi{\text{\texit
12.	Are there potential relinquishments and/or abandonments? Yes \(\sumset \text{No} \text{No} \text{\tex{\tex
13.	Are there any existing and/or potential Airspace sites? Yes ☐ No ☒ (If yes, explain)
14.	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less that PMCS lead time and/or if significant pressures for project advancement are anticipated.)
	PYPSCAN lead time (from Regular R/W to project certification)/ months
15.	Is it anticipated that all Right of Way work be performed by CALTRANS staff?  Yes ⊠ No □ (If no. discuss)

#### **Assumptions and Limiting Conditions**

- 1. This estimate is based on a review of memorandum and addendum provided by Ben Chuck.
- 2. This estimate was completed without the benefit of a hazardous waste report.

Evaluation Prepared By:

ALEXANDER GERSHTEIN

Right of Way:

Name

Date

7-29-00

Railroad:

Name

Date

9-27-00

Utilities:

Name

Date

9-27-00

Recommended for Approval:

Michael T. M. Aug.

Right of Way Capital Cost Coordina

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set forth, and find this Data Sheet complete and current.

Chief, RW Appraisal Services

10-5-00

Date

cc:

Program Manager Project Manager

#### UTILITY INFORMATION SHEET

1. Name of utility companies involved in project:

East Bay Municipal Utility District (2), City of Oakland, Pacific Gas and Electric Co., Pacific Bell, AT&T B.S.

2. Types of facilities and agreements required:

Sewer, Water, Gas, Electric, Telephone, TV Cable.

3. Additional information concerning utility involvements on this project:

Verifications will be required.

4. PMCS Input Information

	Utility Involveme	nts
U-4-1	5-7	6
-2	-8	
-3	-9	
-4		

Prepared by:

Right of Way Unility Estimator

9-27-00 Date

# STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION R/W DATA SHEET UPDATE MEMO

EXHIBIT 13-EX-14 (Rev. 9/96)

(Form#)	DATA SHEET UPDATE MEMO	13-EX-14 (Rev. 9/96)
To:	ALLISON PAICH District Branch Chief Planning and Management	Date: October 19, 200  EA: 28420K
From:	R/W Utilities	
Subject	: R/W Utilities Budget Update	
	Please update Utilities budget information for the above-mentioned project as follows:	
1.	Workloads:	
	U4: 1 U5: 7 <u>5</u>	·
	2 8	
	391_	
	4	
2.	R/W Utility Capital Funding (total amount):	
	FY <u>02</u> \$ <u>20,000.00</u>	
	FY \$	
	FY \$	
3.	Schedules:	
	Utility Maps to R/W/	
	Recommended R/W Utility Leadtime: months	
<u>4.</u>	Remarks: Project Engineer suspects that a P.G.& E Utility pole may be an involvement	in this project. While this may

4. Remarks: Project Engineer suspects that a P.G.& E Utility pole may be an involvement in this project. While this may be considered unusual in a noise barrier project, we wish to revise the Right of Way Data Sheet to reflect a Utility

Relocation figure of \$20,000. U-5-7 shall be changed to 5, and U-5-9 to 1. All other entries on the Data Sheet will remain the same.

Laura Hameister
District Branch Chief
R/W Utilities

Attachment H. Preliminary Geotechnical Report

## Memorandum

: MR. CHUAN CHEN - 04 Project Engineer

Date

August 2, 2000

File No.

04-Ala-580 KP 67.1/67.9

(PM 41.7/42.2) 04-28420K

i com

: DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
Division of Structural Foundations - MS#5

Subject

: Preliminary Geotechnical Report

#### Introduction

Per your request, we are providing this Preliminary Geotechnical Report (PGR) for a proposed noise barrier (soundwall) to be constructed along the eastbound direction of I-580 between KP 67.7 and 67.9 in Alameda County.

The descriptions and recommendations in this Preliminary Geotechnical Report (PGR) are based upon a site visit, a review of information forwarded by your Office and a review of the files for nearby bridges. No subsurface exploration, laboratory testing, or analyses were performed for this report. Therefore, actual conditions may vary from those assumed herein. Recommendations for the section of wall on the 14th Avenue Overcrossing bridge are not included in this memorandum and should be addressed by the Office of Structure Design and/or the Office of Structural Foundations.

#### **Existing Facilities and Proposed Improvements**

At the project site (KP 67.1 to 67.9), I-580 is an eight-lane divided highway, running approximately east-west through the city of Oakland. The proposed walls extend from the Beaumont Avenue On-Ramp eastward to the Ardley Avenue Overcrossing. The soundwall will be composed of two sections of wall, as shown in Figure 1. Part A will be constructed along the soft shoulder of eastbound I-580, and will cross the 14th Avenue Undercrossing On-Ramp (Bridge #33-309-OL), as shown in Figure 2. Part A of the wall will be masonry block on barrier and will vary in height between 3.66 m and 4.27 m. Part B, as shown in Figure 3, is to replace the existing chain link fence that runs along 33th Street on the Caltrans right-of-way line. This section of wall is planned to be masonry block with a constant height of 4.27 m.

## Pertinent Reports and Investigations

In preparing this report, we have reviewed the following bridge files

- 1. 13th Avenue Overcrossing Br. No.33-0311
- 2. Beaumont Avenue Undercrossing Br. No. 33-0310
- 3. 14th Avenue Undercrossing Br. No. 33-0309
- 4. Ardley Avenue Overcrossing Br. No. 33-0308
- 5. Sheffield Avenue Overcrossing Br. No. 33-0325

These files contain memoranda from design and construction as well as the logs of borings performed for the original designs. The near surface soils are described as alluvial deposits consisting of interbedded loose to dense clayey, sandy gravel and stiff to hard silty clay. In these previous geotechnical borings, groundwater was encountered at various depths

Mr. Chuan Chen August 2, 2000 Page 2

from 2 to 8 m below the ground surface. Bedrock was not encountered within the depths drilled in the previous explorations near the project site.

#### Site Visit

A site visit for this report was performed on July 20, 2000. No subsurface exploration, sampling, or testing was performed.

The highway runs along the base of the Oakland Hills. Based on the topography adjacent to the highway, the highway appears to be built on both fill and cut. Based on the elevations of Beaumont Avenue and 14th Avenue, the on-ramp at Beaumont Avenue appears to be built on fill. Part A of the wall will be constructed on this fill. 33th Street runs parallel to the highway to the south. As this street heads east from 14th Avenue, it climbs a hill. The slope composing the southern shoulder of the highway is the side of this hill. Part B of the planned wall will run along the top of this slope. This slope is approximately 3:1 (H:V) towards the highway.

The landscaping along the roadway shoulder is very thick and mature. Ivy, bushes and various trees cover the right-of-way. Fairly large trees follow the alignment of Part B of the wall.

#### Geotechnical Recommendations

The investigation for this PGR was based upon site reconnaissance and document review and presents an appropriate level of detail for preliminary project design and evaluation. We anticipate that both sections of the wall (with the exception of that portion of Part A, which sits on the 14<sup>th</sup> Avenue Bridge) should be supported on cast-in-drilled-hole (CIDH) concrete piles. Based on our review of the existing subsurface information, the Bridge Standard Details for masonry block soundwall on barrier (XS 3-57) and masonry block soundwall on pile cap (XS 3-59) appear to be appropriate for design of the soundwall foundation system.

Preliminary approximations of the soil strengths were used to estimate the foundation design as follows. Along Part A of the wall, the ground surface is flat on both sides. The CIDH piles supporting this section of wall should be designed in accordance with Case 1 parameters listed on the Bridge Standard Detail sheet for masonry block on barrier (sheet XS 3-57.3). Because much of Part B of the wall runs along the top of a slope, it is appropriate to utilize the Case 2 design parameters listed on the Bridge Standard Detail sheet for masonry block on pile cap (sheet XS 3-59.3). The following table summarizes the preliminary design parameters for the soundwall foundation:

TABLE 1 - PRELIMINARY DESIGN PARAMETERS FOR CIDH PILES

Wall Section	Wall Height	Pile Spacing	Pile Depth	Pile Diameter
	(m)	(m)	(m) ·	(m)
Part A	3.66	3.05	3.73	0.36
Part A	4.27	2.44	3.73	0.36
Part B	4.27	4.88	4.27	0.41

### **Proposed Future Investigations**

To better evaluate the site's specific foundation considerations, a subsurface exploration and testing program will be employed during the project PS&E phase. Future investigation work will include geotechnical drilling, sampling, laboratory testing, and data analyses work in support of the Geotechnical Design Report (GDR).

Mr. Chuan Chen August 2, 2000 Page 3

We have summarized in the table below the proposed scope of future services along with the associated hours and duration to complete. The total duration may be less than the estimated duration for each activity as it represents the likely overlap of laboratory testing, data analyses, and GDR preparation. If the project scope changes, the amount of exploration may need to be revisited.

TABLE 2 - ESTIMATED SCHEDULE FOR FUTURE INVESTIGATIONS

Service	Estimated Hours	WBS Level 6	Estimated Duration
Field Work/Drilling	160	185.20	1 months*
Laboratory Analyses	80	185.20	1 months
Data Analyses/Design	80	185.20	.5 months
Reporting	80	185.20	.5 months
TOTAL	400	185.20	3 months

<sup>\*</sup>Drilling may be delayed during the winter/spring period due to rainfall

If you have any questions or comments, please call me at (916) 227-6980 or CalNet 498-6980.

CE 58935

JEFF A. FIPPIN, P.E.

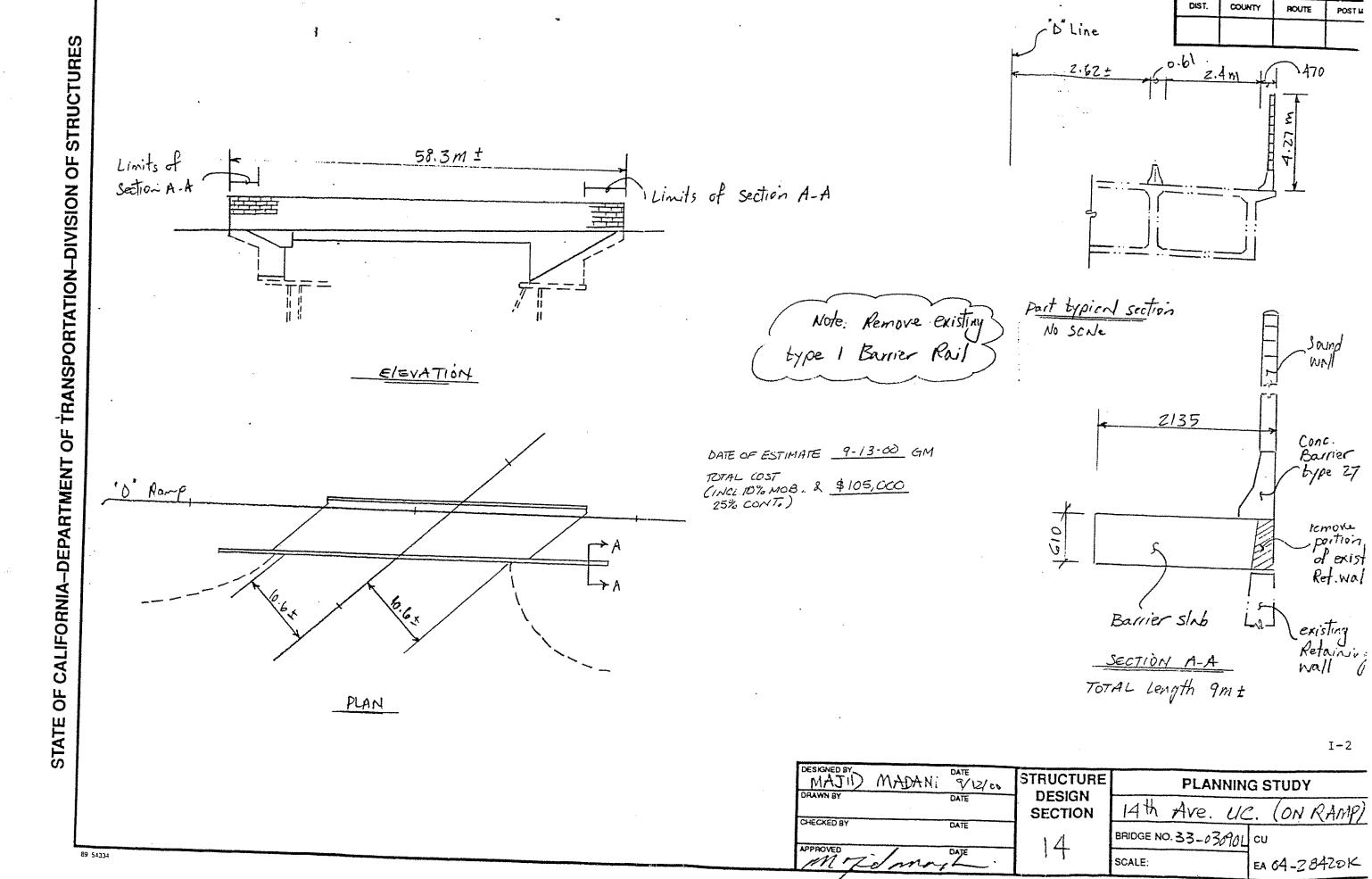
Transportation Engineer - Civil

Office of Roadway Geotechnical Engineering - North

#### Attachments

c: RHPrysock CHannenian RGEN.01 Attachment I. Preliminary Structure Design Report

etric



DS D132 A (11/87)

Attachment J. Preliminary Environmental Review

From:

### Memorandum

MR. CHUAN CHEN To:

Office of Advance Planning

Date:

March 1, 2001

Department of Transportation, District 4

Office of Environmental Planning, South

EA 28420K File:

ALA-580-KP 67.1/67.9

(PM 41.7/42.2)

Subject:

Preliminary Environmental Review

#### PROJECT DESCRIPTION

Two soundwalls are proposed for Route I-580 eastbound near 14th Avenue to Ardley Avenue in the City of Oakland, Alameda County. A noise study indicated that current noise levels caused by freeway traffic exceed 67 dBA (HB311 criteria). The proposed soundwalls, 4.27 m high and 330 m combined length (14' x 1080'), will reduce noise levels by 5 dBA for 16 residential units. The noise barrier material is proposed to be masonry blocks (or concrete panels as alternative). The project will be constructed within existing State right-of-way. However, a temporary easement will be required for construction. This project will be funded by the 2000 STIP.

#### **ENVIRONMENTAL EVALUATION**

Based on our understanding of the project's scope and its location, we believe that it will not have a significant effect on the environment and that it will satisfy the requirements for a Categorical Exemption under CEQA and for a Categorical Exclusion under NEPA. However, this determination is contingent upon the existing project description. In addition, measures may be required to deal with the effects of the project on any sensitive environmental resources identified during the environmental study phase of the project.

If the scope of the project changes, and the changes have a potential for a significant effect to the environment, then an Initial Study/Environmental Assessment will need to be prepared.

The Office of Environmental Planning, South looks forward to providing further support on this project. For any questions or additional information, please contact me at CALNET 541-6214.

**DENNIS RADEL** 

Branch Chief

Environmental Planning, South

Attachment K. PYPSCAN and XPM

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SCAN 04 28420K M ALA 580 R41.7 D P=F11 N=F12 * A C S P *
IN THE CITY OF OAKLAND ON ROUTE 580 LENGTH .5 EA 28420K
FROM 14TH AVENUE TO ARDLEY AVENUE AGREE & CLEAR FLAG S
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LANES FISH & GAME STRUCTURES
 PROGRAM HB311
PROGRAM HB311 ALIGNMENT
PROJECT TYPE NA ADT COASTAL ZONES DISTRICT DE 461
STRUCTURES LANES FISH & GAME STRUCTURES
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PROJECT DATA HAS BEEN UPDATED

UUU 06/04/01 15:12:00

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## **DISTRICT XPM Work Sheet**

EA: 28420K County: ALA Rte: 580 Soundwall

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Construction	Construction	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental		End Date Duration*A Milestone Dat  Task Hours  Task Hours	les	100	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265			Final Kep	Final Rep	Reg RW		RW Cert		End Proj	Tot Hrs 208	\$114,780
Task   100	Task   100	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours	les	190 0 100 0	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265					Reg RW		R/W Cert		End Proj	Tot Hrs 208  Tot Hrs 1913  Tot Hrs 6999	\$114,780 \$419,940
Right of Way   16 9 20 301   STRIP Components only   S	Right of Way   100   16 9 20 301   15   15   15   15   15   15   15	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours	les	100 0 100 0 100 989	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295	Reg RW		RW Cerl		End Proj	Tot Hrs 208  Tot Hrs 1913  Tot Hrs 6999	\$114,780 \$419,940
Right of Way   16 9 20 301   S771 300   S7	Right of Way	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours	les	100 0 100 0 100 989	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295	Reg RW		RW Cert		End Proj	Tot Hrs 208  Tot Hrs 1913  Tot Hrs 6999	\$114,780 \$419,940
Right of Way   16 9 20 301   STRIP Components only   S	Right of Way   100   16 9 20 301   15   15   15   15   15   15   15	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours	les	100 0 100 0 100 989	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295	Reg RW					Tot Hrs 208  Tot Hrs 1913  Tot Hrs 6999  Tot Hrs 3642	\$114,780 \$419,940
Grand Total Hrs (STIP Components only) \$771 300	Grand Total Hrs (STIP Components only) \$77	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim  Construction		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours  Task Hours	les	100 0 100 0 100 989 100 256	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295						Tot Hrs 208  Tot Hrs 1913  Tot Hrs 6999  Tot Hrs 3642	\$114,780 \$419,940 \$218,520
		*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim  Construction		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours  Task Hours	les	100 0 100 0 100 989 100 256	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295	220		225	245	300	Tot Hrs  208  Tot Hrs  1913  Tot Hrs  6999  Tot Hrs  3642  Tot Hrs	\$114,780 \$419,940 \$218,520
		*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim  Construction		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours  Task Hours	les	100 0 100 0 100 989 100 256	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295	220		225	245	300	Tot Hrs  208  Tot Hrs  1913  Tot Hrs  6999  Tot Hrs  3642  Tot Hrs	\$114,780 \$419,940 \$218,520
	12855	*Input as Days, Wks, and/or Years  STIP Calculations Below:  Project initiation Document & P Not Incl in STIP  Permits and Environmental  Plans, Specification, and Estim  Construction		End Date Duration*A Milestone Dat  Task Hours  Task Hours  Task Hours  Task Hours	tes	100 0 100 0 100 989 100 256	150	160	165	175	180	205 675	15 190	200	210	*		240	250	255	250	265	270	285	290	295	220	195	225	245	300 20	Tot Hrs 1913  Tot Hrs 6999  Tot Hrs 3642  Tot Hrs 301	\$114,780 \$419,940 \$218,520 \$18,060

Attachment M. NBSSR PERFORMANCE MEASURES

# NBSSR PERFORMANCE MEASURES FOR

## EA: <u>04-28420K</u>

		SCOPE
<u>Yes</u>	No	
X		Is the "Need and Purpose" clearly defined and written in accordance with applicable permitting agency requirements?
X		Do the alternatives stay within scope or solve problem identified in "Need and Purpose"?
<b>X</b>		Does the scope incorporate required allied projects such as Traffic Management System (TMS) elements, replacement planting, environmental mitigation, maintenance needs, and relinquishments?
X		Have non-standard features, if any, been approved using established guidelines?
×		Is scope consistent and coordinated with local, regional and state system plans?
		Scope Confidence Rating: 4.5 (1 low to 5 high)
		COST
×		Is the estimate realistic and in accordance with established guidelines?  Does it include a sum for contingencies consistent with risk?
×		Does the cost incorporate required allied projects such as TMS elements, replacement planting, environmental mitigation, and relinquishment requirements?
×		Is the Right of Way cost developed in accordance with established guidelines and consistent with anticipated needs?
X		Were benefit/cost ratios and/or the data to calculate them provided?
X		Were funding sources and commitments identified? Is proposed funding program consistent with project type?
×		Were support costs identified in a manner consistent with SB 45 and CTC Guidelines and supported by a complete project work plan?
		Cost Confidence Rating: 4.5 (1 low to 5 high)

#### **SCHEDULE**

×		Is time allowed for environmental evaluation and construction commensurate with anticipated studies and work windows (e.g., hazardous waste, endangered or season-specified species)?
X		Does the schedule incorporate required allied projects such as TMS elements, replacement planting, environmental mitigation, and relinquishment requirements?
×		Is Right of Way time provided consistent with anticipated needs, including railroad and utilities?
X		Is schedule consistent with district resource capacity and based on an approved project work plan?
X		Do local stakeholders agree with the schedule?
X		Is schedule consistent and coordinated with local, regional and state plans?
		Schedule Confidence Rating: 4.5 (1 low to 5 high)
		QUALITY
X		Was the range of alternatives identified and evaluated consistent with the need and purpose of the project?
<b>X</b>		Were the preliminary design, Right of Way, traffic and environmental effort adequate to confidently establish scope, schedule and estimate?
X		Were the studies adequate to identify all project stakeholders such as permitting agencies and community groups, and their anticipated levels of involvement?
X		Were their adequate peer reviews such as district functional units, safety, maintenance and constructability reviews, value analysis, and OPPD so to alleviate any undue risk?
		Quality Confidence Rating: 4.5 (1 low to 5 high)
OVER	ALL N	BSSR Confidence Score Total: 18 x 5 = 90

Note: Add above individual section confidence ratings and multiply by 5 to obtain overall confidence score. A score of less than 70 indicates "High Risk".

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